

REMARKS

This Amendment is responsive to the Office Action identified above and below, and in any other manner indicated below.

PENDING CLAIMS

Claims 42-65 were pending for consideration and examination in this application. Appropriate claims have been amended in order to slightly broaden a scope of the claimed invention. That is, the amendments to the claims are unrelated to any prior art or scope adjustment, and are simply clarified claims in which Applicant is presently interested. At entry of this paper, Claims 42-65 will be pending for further consideration and examination in this application.

REJECTION UNDER 35 USC §103

The 35 USC §103 rejection of Claims 42-65 as being unpatentable over Lawler *et al.* (U.S. Patent 5,585,838) in view of Alten *et al.* (U.S. Patent 5,781,246), and further in view of the Video Guide User's Manual, Part # 030-10011, Revision 1.0, 1995 (page 12), is respectfully traversed. Applicant respectfully submits the following to traverse such rejection.

All descriptions of Applicant's disclosed and claimed invention, and all descriptions and rebuttal arguments regarding the applied prior art, as previously submitted by Applicant in any form, are repeated and incorporated herein by reference. Further, all Office Action statements regarding the prior art rejections are

respectfully traversed. As additional arguments, Applicant respectfully submits the following.

Applicant respectfully submits (per a European Patent Office (EPO) Opposition Decision) that the newly-cited reference Video Guide User's Manual is not valid prior art (due to an unproven date/publication), and even if available, the Video Guide User's Manual is not logically combinable with Lawler *et al.* to arrive at Applicant's invention.

More particularly, prior art validity of the Video Guide User's Manual was already considered in an EPO Opposition, where it was ruled to be unreliable as prior art because it could not be proven that the public had access to the reference on the date indicated on the reference. Namely, there is no evidence showing that the public could access the reference in 1995, or that any apparatus as described in the reference existed in 1995.

Accordingly, in the European application corresponding to the present US case, the EPO's Opposition Division concluded that the reference (*i.e.*, Reference D4(2) in the corresponding European application) is not Prior Art since there is no proof that the reference was known to the public before the priority date of the present application.

Attached hereto are copies of the Reasoning of Opposition, the Response to the Reasoning of Opposition and the Decision of Opposition as issued in the corresponding European application. Further, enclosed is a copy of each of References D4(1) (MacWEEK) and D4(2) (Video Guide User's Manual) from the corresponding European application.

Even beyond the Video Guide User's Manual not being available as prior art, the feature indicated by the Examiner on Page 4, lines 21-22 of the outstanding Office Action could not be read from the reference. Namely, it is cannot be determined whether the character string "Little Nemo: Adventures in..." is an extended program or not because there is no description of same within the reference. Further, there also is no description in the reference as to what is displayed when a user selects the string "Little Nemo: Adventures in..." Accordingly, it cannot properly be said that the reference teaches the subject matter of the Applicant's claims.

Even reviewing the figure on page 12 of the reference, Applicant could not find any sufficient explanation to suggest any combination with Lawler *et al.* Specifically, as seen from the program "College Baskethall UMass vs. Temple" in Fig. 8 of Lawler *et al.*, there is no omission of a program if the program extends beyond a prescribed time period. Accordingly, if omission of the program is taught by the reference Video Guide User's Manual, the technical concepts would diametrically oppose each other between the references. Therefore, they would be difficult, if not impossible, to combine.

To conclude, the existing Claims 42-53 represent claims which were agreed upon during the personal Examiner Interview conducted 1 April 2004 (which has previously been acknowledged and the substance of which made of record) as being allowable over the art then of record (e.g., Lawler *et al.* and Alten *et al.*). Given that the newly-applied Video Guide User's Manual is not proper prior art due to uncertain publication, and contains unclear teachings, it is respectfully submitted that present

Claims 42-53 still remain allowable over the art of record, including the Video Guide User's Manual. Specifically, as discussed during the Examiner Interview, such claims are distinguished, at minimum, by at least four (4) features/operations being applied with respect to extended programs. That is, when an extended program exists (which would otherwise extend beyond a prescribed time period of the menu grid): 1) a number of characters of the extended program is omitted; 2) an omission symbol (e.g., "...") is added to show that characters have been omitted; 3) an entirety of the character information of the extended program is displayed in a different zone of the display (as opposed to the first prescribed zone); and 4) time information of the extended program is displayed in a different zone of the display. None of the applied references discloses or suggests such combination.

It is further noted that added independent Claim 48 has a fifth (5TH) feature/operation beyond the four discussed above, *i.e.*, 5) a particular background information block characteristic (e.g., shape) also is changed for Applicant's extended programs. Again, none of the applied references discloses or suggests such combination.

As a result of all of the foregoing, it is respectfully submitted that the applied art (taken alone and in the Office Action combinations) would not support either a §102 anticipation-type rejection or a §103 obviousness-type rejection of Applicant's claims. Accordingly, reconsideration and withdrawal of any art rejections, and express written allowance of all present replacement claims, are respectfully requested.

EXTENSIVE PROSECUTION NOTED

Applicant and the undersigned respectfully note the extensive prosecution which has been conducted to-date in the present application, and thus Applicant and the undersigned would gratefully appreciate any consideration or guidance from the Examiner to help move the present application quickly to allowance. It is respectfully noted that the present application was filed in 1999, and already has had 5+ Office Actions on the merits.

EXAMINER INVITED TO TELEPHONE

The Examiner is invited to telephone the undersigned at the local D.C. area number of 703-312-6600, to discuss an Examiner's Amendments or other suggested action for accelerating prosecution and moving the present application to allowance.

RESERVATION OF RIGHTS

It is respectfully submitted that any and all claim amendments and/or cancellations submitted within this paper and throughout prosecution of the present application are without prejudice or disclaimer. That is, any above statements, or any present amendment or cancellation of claims (all made without prejudice or disclaimer), should not be taken as an indication or admission that any objection/rejection was valid, or as a disclaimer of any scope or subject matter. Applicant respectfully reserves all rights to file subsequent related application(s) (including reissue applications) directed to any/all previously claimed limitations/features which have been subsequently amended or cancelled, or to

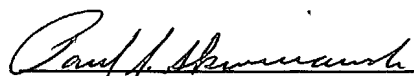
any/all limitations/features not yet claimed, *i.e.*, Applicant continues (indefinitely) to maintain no intention or desire to dedicate or surrender any limitations/features of subject matter of the present application to the public.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant respectfully submits that the claims presently under consideration in the application are now in condition for allowance, and early allowance of such claims is respectfully requested.

This Amendment is being submitted within the shortened statutory period for response to the Office Action mailed 29 June 2004, and no Petition or fee is required for entry and consideration of this paper. To whatever other extent is actually necessary, Applicant respectfully petitions the Commissioner for an extension of time under 37 CFR §1.136. Please charge any actual deficiency in fees to ATS&K Deposit Account No. 01-2135 (referencing Case No. 500.35360CX1).

Respectfully submitted,



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Attachments:

Reasoning of Opposition
Response to the Reasoning of Opposition
Decision of Opposition
Reference: MacWEEK
Reference: Video Guide User's Manual

1/9/1 (Item 1 from file: 275)
 01753682 Supplier Number: 16652165 (This Is The FULL TEXT)
 Pioneering the synergy of Macs, electronics. (Dealer's Corner)(Column)

Harris, Scott
 MacWEEK, v9, n11, p18(1)
 March 13, 1995

Document Type: Column

ISSN: 0892-8118

Language: ENGLISH Record Type: FULLTEXT; ABSTRACT

Word Count: 589 Line Count: 00046

GUI = Graphical U
Interface

Abstract: Pioneer Electronic Corp is leading the trend of the proliferation of the Mac GUI, which can be seen in everything from commercials to consumer-electronics products, so it makes sense that Pioneer has announced that it will manufacture Mac clones. Pioneer Electronic, based in Tokyo, understands the synergy that can exist between computers and other electronics, which is evident by the company's inclusion of graphical interfaces in its audio/video receivers. The company manufactures computer peripherals, such as CD-ROM changers, and it makes most of the computer-controlled laser disc players on the market.

Text:

No longer confined to the domain of the computer-literate, the Mac-inspired graphical user interface appears in everything from soft drink commercials to a growing assortment of consumer-electronics products. One of the companies at the forefront of this trend is Pioneer Electronic Corp., the electronics juggernaut that recently announced its entry into computer manufacturing as one of the first Mac OS licensees. That announcement raised a few eyebrows, but Pioneer is not entirely new to the GUI or the computer industry. The Tokyo-based company has been among the first to understand the potential synergy between computers and other electronics. For example, Pioneer produces audio-video receivers with graphical interfaces. The user can operate attached real and virtual audiovisual devices, as well as electronically alter the apparent sound characteristics of the listening room through graphic displays that appear on the television.

GUIs go mainstream

Pioneer also manufactures computer peripherals, including double-and quad-speed six-disc CD-ROM changers, and the company has been the primary manufacturer of computer-controlled laser disc players, especially popular in the education market (and one of the few things for which HyperCard proved especially useful). Maybe Pioneer's new status as a Mac OS licensee isn't as odd as it may have first appeared. The further integration of the Mac operating system with AV products has the potential to be exciting both for what it might add to our capabilities as computer users and for its ability to bring the Mac experience to new groups of users.

Pioneer is not the only company to have recognized the potential in combining GUI with other AV technologies. A few years ago, ill-fated Frox Inc. produced a high-end AV package built around a SPARC system, with a decidedly Mac-like interface. While a high price and technical flaws prevented it from achieving success, it left a legacy. Its on-screen GUI programming guide was the forerunner of similar approaches now used in RCA Corp.'s DSS satellite TV system and in video products that include the StarSight Telecast Inc. system for program selection and VCR programming. VideoGuide Inc. of Waltham, Mass., previewed another such system at

January's Consumer Electronics Show. This GUI television programming guide provides functions similar to StarSight's, but also provides its own sports and news services. Further integrating computer technology, VideoGuide also has a SmartSort feature that learns the user's preferences and presents its information accordingly. Interestingly, this company was founded by the people behind GCC Technologies Inc., one of the oldest manufacturers of Mac peripherals.

Opportunity knocks

Apple has acknowledged its interest in marketing set-top boxes and other devices that would bring a Mac-style GUI into the noncomputer consumer market. Whether or not the company does this, it should consider licensing the Mac look and feel to other manufacturers who might be interested in producing such products.

GUIs will continue to proliferate, with or without Apple's blessing. Some manufacturers would likely be open to licensing a GUI that is already well thought out and familiar to many users, which also spares them from reinventing the wheel. If these devices are going to have some sort of GUI anyway, Apple might as well reap some royalties and in the process help make a Mac-looking GUI become what people expect to see when they buy a quality product.

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Company Names: Pioneer Electronic Corp.—Marketing

Descriptors: Company Operations; Company Business Management; Product Licensing; Computer industry

Product/Industry Names: 3573115 (Microcomputers); 7372501 (Systems Software Pkgs (ex Micro))

SIC Codes: 3571 Electronic computers; 7372 Prepackaged software

Ticker Symbols: PIO

File Segment: CD File 275

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Munich, May 30, 2003

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European Patent 0 802 673 (97 106 458.9)

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Opponent: Interessengemeinschaft für Rundfunkschutzrechte GmbH
Schutzrechtsverwertung & Co. KG

Our ref: A25432EP A1/MTa/bb

Responsive to the Notice of Opposition dated November 20, 2002:

I. Introduction

The following documents are cited in this reply:

D2: WO 96/07270 A1

D4(1): Article with abstract from MacWEEK, v9, n11, p18(1) from March
13, 1995, ISSN: 0892-8118 (Harris, Scott)

D4(2): VideoGuide, User's Manual, The Associated Press, printed in the
U.S.A. Part # 030,10 011 rev. 1,0, VideoGuide, Inc. (in total 28
pages)

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In his written statement dated October 16, 2002, opponent gives the following arguments for his appeal:

- a. The subject-matter of claim 1 does not involve an inventive step regarding documents D2 and D4(2).
- b. The subject-matter of claim 4 does not involve an inventive step regarding documents D2 and D4(2).
- c. The subject-matter of dependant claims 2, 3, 5 and 6 does not involve an inventive step regarding document D2.
- d. The subject-matter of dependant claims 7 to 9 does not involve an inventive step regarding document D4(2).

Patentee cannot agree with the different arguments given by opponent for the reasons given below.

II. Document D4(2) is not prior art.

Patentee cannot agree with an acknowledge of D4(2) as prior art for the reasons given below.

D4(1) mentions a previewed apparatus (an on-screen GUI programming guide) by VideoGuide Inc. of Waltham, Mass. shown at the Consumer Electronics Show in January, 1995.

D4(1) does not give any information about the details, i.e. features of the previewed apparatus. In particular, D4(1) does not give any information about the features of claims 1 or 4.



Opponent states that D4(2) is an User's Manual of the previewed apparatus according to D4(1). However, no evidence is given by the opponent that D4(2) was shown or distributed together with the previewed apparatus at the above mentioned computer exhibition.

Therefore, the accessibility of D4(2) for the public is doubtful because the date of the distribution (publication) is doubtful (cf. T 308/87).

In decision T 308/87, it is said:

"This citation had to be disregarded by the Board on account of failure on the part of the appellant to establish beyond any doubt the date at which the pamphlet had been distributed to third parties.

The mere fact that the authors of the pamphlet have confirmed the date of the printer's delivery of the commissioned pamphlet followed by the statement of immediate delivery to customers does not meet the stringent requirements that must be applied by the Board for the categoric determination of a publication date. The appellant has not made any attempt to remove any possible shadow of doubt as to the publication date. Where such doubt persists, it must be resolved in favour of the patent proprietor. Consequently, the Board must give them the benefit of doubt and the assessment of the document in question must be refused." (Reasons 4.; underlines from this side)

Further, D4(2) is a company script which was in fact produced (i.e. printed) but it is not certain that its was distributed (cf. T 82/90).

In decision T 82/90, it is said:



"Das zum Stand der Technik genannte Dokument (3), ein Firmenprospekt der Beschwerdeführerin Ziemann, hat die Einspruchsabteilung in ihrem Beschluß aufgrund des mangelnden Veröffentlichungsdatums nach Auffassung der Kammer zu Recht nicht berücksichtigt. Es verbleibt daher zu prüfen, ob die im Beschwerdeverfahren nachgereichte Bestätigung des Druckereibetriebes als Veröffentlichungsnachweis ausreicht. Die Kammer sieht in diesem Zusammenhang keinen Grund, die Angaben zum Druckdatum und der Höhe der Auflage des Prospektes, also dessen Existenz, anzuzweifeln. Natürlich ist auch die Kammer der Meinung, daß unter normalen Umständen bei 3000 Exemplaren eines Prospektes innerhalb von 10 Jahren davon auszugehen ist, daß diese zumindest zum Teil auch der Öffentlichkeit zugänglich gemacht worden sind. Wenn jedoch, wie im vorliegenden Falle, der Hersteller des im Prospekt angebotenen Produktes, der selbst die Herstellung des Prospektes in Auftrag gegeben hatte, nach seinen eigenen Angaben nicht einen Empfänger benennen kann, obwohl der Prospekt angeblich auf Fachmessen verteilt wurde und den Nachdruck einer bereits 1968 erschienenen Ausgabe darstellen soll, sieht sich die Kammer gehindert, aufgrund der Lebenserfahrung davon auszugehen, daß der Prospekt tatsächlich der Öffentlichkeit zugänglich gemacht worden ist. (...) Wenn Zweifel an der Verteilung eines Prospekts bestehen und der Einsprechende, der sich zur Begründung seines Vortrags auf dieses Dokument stützt, nicht in der Lage ist, die Verteilung des Prospekts nachzuweisen, obwohl es sich um seinen eigenen Prospekt handelt, so kann die Kammer über diese Zweifel nicht unter Berufung auf eine allgemeine Lebenserfahrung hinweggehen, und den Prospekt als der Öffentlichkeit zugänglich gemacht ansehen. Da die Kammer nicht in der Lage ist, die Verteilung des Prospekts von Amts wegen festzustellen, muß der sich



daraus ergebende Nachteil - nämlich, daß der Prospekt nicht als Stand der Technik angesehen wird - zu Lasten des Einsprechenden gehen, der sich auf diesen Prospekt als Stand der Technik stützt. Diese Rechtsfrage ist in der Rechtsprechung der Beschwerdekammer seit langem anerkannt." (Reasons 3.1; underlines from this side)

Thus, document D4(2) is not prior art.

III. The invention

As explained in the introduction of the opposed patent EP 0 802 673 B1 (hereinafter referred to patent-in-suit) it is an object of the invention to display an entire display data on specific information selected by a viewer or to add an information correcting display when the display data is missing to thereby allow the information of the display data to be presented within a limited display zone of a display screen.



According to the invention, this problem is solved by the apparatus defined in claims 1 and 4. Claim 1 defines:

| | |
|----|---|
| 1. | A broadcasting and communication receiver apparatus comprising: |
| a | receiver means for receiving program-associated information including title, start and end times of a broadcast program together with a video signal and a audio signal; |
| b | decoder means for decoding the program-associated information from the received signal; |
| c | screen display means for displaying the decoded program-associated information thereon; |
| d | command receiver means for receiving an input signal from a remote controller or from a key or keys provided to a main body of the receiver apparatus; and |
| e | display controller means for controlling the display screen based on the input signal, and |
| f | wherein a first display zone in which a plurality of character information strings are displayed is provided in the display screen means for displaying program-associated information, |
| | characterized in that |
| g | the display controller means has data quantity comparator means for comparing a magnitude of the first display zone with the quantity of display data and, |
| h | when the data quantity is judged to be larger than the first display zone, then the displayable part of the character string of the display data of the display controller means as well as a symbol indicative of omission attached to a last tail part of the character string are displayed. |



Further, claim 4 defines:

| | |
|----|--|
| 4. | A broadcasting and communication receiver apparatus comprising: |
| a | receiver means for receiving program-associated information including title, start and end times of a broadcast program together with a video signal and a audio signal; |
| b | decoder means for decoding the program-associated information from the received signal; |
| c | screen display means for displaying the decoded program-associated information thereon; |
| d | command receiver means for receiving an input signal from a remote controller or from a key or keys provided to a main body of the receiver apparatus; and |
| e | display controller means for controlling the display screen based on the input signal, |
| i | wherein the screen display means for displaying the decoded program-associated information thereon includes at least |
| i1 | a first program name field indicative of a title of a program, |
| i2 | a channel number field indicative of a channel number and |
| i3 | a plurality of information fields such as time scale fields indicative of a time being displayed, |
| i4 | each of the information fields uses at least a character string and a background, the information fields form a program chart indicative of program broadcast schedules, |
| | characterized in that |
| j | one end of the first program name field indicates a program end time, |
| k | the display controller means includes data amount comparator means for comparing a size of the first program name field with the amount of program name data and, |
| l | when the data amount comparator means judges that the amount of program name data is larger than the size of the first program name field, the display controller means causes a displayable character string of the display data as well as a symbol indicative of omission attached to a last tail part of the character string to be displayed. |



The letters given in the left column of the table concerning claim 1 follow the lettering scheme employed by the opponent in the statement of Grounds of Opposition. In the table concerning claim 4 feature (l) corresponds, for clarity reasons, to features (l) and (m) as employed by the opponent in the statement of Grounds of Opposition.

According to feature 1.(g) and 4.(k) of the present invention, as "data quantity comparator means" are equivalent to "data amount comparator means" and "magnitude" is equivalent to "size", the display controller means of claim 1 and 4, respectively, includes data amount comparator means for comparing a size of the first display zone or of the first program name field with the amount of display data or of program name data and, when the data amount comparator means judges that the amount of display data or of program name data is larger than the size of the first display zone or of the first program name field the display controller means causes a displayable character string of the display data or of the program name data as well as a symbol indicative of omission attached to a last tail part of the character string to be displayed.

As the display resolutions of display screens the receiver can be connected to and/or the size and therefore the resolution of an area of the display screen, which is used for displaying, may be variable, there exists the specific problem to fit the large amount of said program-associated information **dynamically** together with an omission sign to a certain display zone having a variable size and therefore a variable resolution, the certain display zone being part of

- 1.) said display screen having a variable resolution, or
- 2.) said area of the display screen, which is used for displaying and having a variable size and therefore a variable resolution.



Further, as displaying of data which is larger than the size of the first display zone or than the size of the first program name field **has to function always properly**, i.e. in case of any screen display resolution, in case of any size and therefore any resolution of the area of the display screen which is used for displaying and/or in case of using other letters than Latin letters such as Kanji (cf. column 4, line 47 to line 52) which need more space per letter, data amount comparator means in the receiver are an essential part of the present invention, i.e. the receiver has to comprise those data amount comparator means and has to be capable of the above described operation.

Thus, for solving the above described specific problem data amount comparator means defined in claims 1 and 4 of the patent in suit are essential and important components of a broadcasting and communication receiver apparatus according to the present invention, which receives multiplexed signals including a large amount of program-associated information and displays this information in a display zone having a variable resolution, the display zone being part of a display screen with a variable display resolution or being part of an area with a variable size and resolution of a display screen.

IV. Inventive Step with regard to document D2 and document D4(2)

Document D2 is to be considered to represent the most relevant state of the art showing the features (a), (c), (d), (e) and (f) of claim 1 and the essentially corresponding features (a), (c), (d) and (e) of claim 4.

As admitted by the opponent, D2 does not explicitly disclose the decoder means of claim 1, feature (b) and of claim 4, feature (b).



Further, D2 does neither disclose the data amount comparator means of claim 1, feature (g), and of claim 4, feature (k), nor disclose the omission symbol of claim 1, feature (h), and of claim 4, feature (l).

As discussed above, D4(2) is not prior art. However, should the Opposition Division accept D4(2) as prior art for this case its technical content is discussed.

D4(2) describes an on-screen GUI programming guide receiver (hereinafter denoted as "Video Guide System").

As admitted by the opponent, also D4(2) does not disclose the data amount comparator means of claim 1, feature (g), and of claim 4, feature (k).

However, the opponent draws in his Grounds of Opposition the conclusion that for a skilled person it would have been obvious to include data amount comparator means in the receiver of the Video Guide System according to D4(2), as in D4(2) the amount of data which has to be displayed has to be compared to the size of the display zone.

This conclusion of the opponent is not correct for the following reasons.

Firstly, the system according to D4(2) was produced for the American market and directed to an analog TV system of a given transmission standard, i.e. the American NTSC-system (NTSC – National Television Standards Committee). As the NTSC system comprises as a matter of fact a fixed resolution of 640x480, representing the visible pixels of the television display screen, and as D4(2) does not disclose any variable screen resolution or any hint of a variable



screen resolution, it is obvious that the Video Guide System is working with a fixed resolution (fact (a)).

Moreover, as described in D4(2) the Video Guide System offers four different displays of program lists which are denoted as "Program Guide", "Program Views", "Sports Guide" and "News Guide"(cf. D4(2), page 5). The "Program Guide" offers three different layout formats which are denoted as "Standard Format", "Expanded Format" and "Alphabetical Format" (cf. D4(2), page 10). This comes to a limited total of six different layouts which are displayed (fact (b)).

Thus, before transmitting the data which is to be displayed within each layout the resolution of the display area and its size and therefore the displayable amount of data for each layout is known, i.e. according to the teaching of D4(2) the amount of data which has to be displayed **has not to be compared in the receiver system** to the size of the display zone (fact (c)).

The only problem apparent to the skilled person from D4(2), if any, is to adapt the stored data before transmission in an appropriate way, i.e. to adapt the known stored data to fit after the transmission to the known display area. According to the teaching of D4(2), in particular in view of the above mentioned facts (a) to (c), the skilled person would include such fitting adaption means in the transmitter system because only one of such means (in the transmitter system) and not a plurality of such means (in each receiver system) would be necessary.

Thus, it can be concluded that D4(2) does neither explicitly disclose data amount comparator means at all nor does it give any hint about such means nor does it give a hint of including such means in a receiver system.



Thus, as mentioned above, none of the cited documents D2 and D4(2) disclose on themselves or in combination a broadcasting and communication receiver apparatus comprising data amount comparator means, give any hint about such means or give any hint of including such means in such a receiver system.

In general, when assessing inventive step, an interpretation of the prior art documents as influenced by the problem solved by the invention while the problem was neither mentioned or even suggested must be avoided, such an approach being merely the result of an a posteriori analysis (ex post facto approach) (cf. T 5/81, T 63/97, T 170/97, T 414/98).

From the discussion above, it is obvious that the opponent follows such ex post facto approach.

Further, it is the boards' established case law that the question is not if the skilled person could have carried out the invention, but if he would have done so in hope of solving the underlying technical problem or in the expectation of some improvement or advantage ("could-would-approach") (cf. T 2/83, T 90/84, T 7/86, T 200/94, T 885/97). So the point is not if the skilled person could have arrived at the invention by modifying the prior art, but rather if, in expectation of the advantages actually achieved, i.e. in the light if the technical problem addressed, he would have done so because of promptings in the prior art (cf. T 212/87, T 445/94, T 414/98).

As the discussion above has shown, the skilled person would have not arrived at the invention based on promptings in the prior art.



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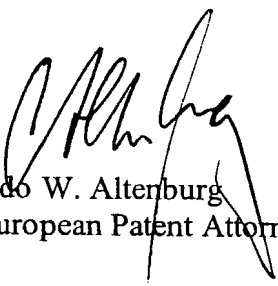
From the above discussion, it can be concluded that the subject matter of claims 1 and 4 can obviously not be derived by any skilled person from the cited documents D2 and D4(2) and therefore, that the present invention involves an inventive step.

Therefore, the opposition has to be rejected.

V. Requests

Therefore, it is requested

1. to reject the opposition against the European patent EP 0 802 673 B1 and to maintain the patent in its entirety,
2. auxiliarily, to summon for oral proceedings according to Art. 116 EPC.



Udo W. Altenburg
European Patent Attorney

Enclosures

3 copies



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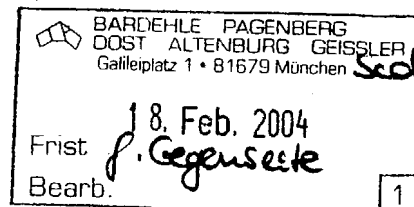
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Direction Générale 2

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|---|----------------------|--------------------|
| Application No. / Patent No. 97 106 458.9 - 2202 / 0802673 / | Ref. A 25432 EP ✓ | Date 17.02.2004 |
| Proprietor Hitachi, Ltd. | | |

Decision rejecting the opposition (Article 102(2) EPC)

The Opposition Division has decided:

The opposition(s) against the European patent EP-B- 0802673 is/are rejected.
The reasons for the decision are enclosed.

Possibility of appeal

This decision is open to appeal. Attention is drawn to the attached text of Articles 106 to 108 EPC.

Opposition Division:

Chairman: MCGRATH S A
2nd Examiner: BERST C D J
1st Examiner: SCHINNERL A



Eriksson, I
Formalities Officer
Tel. No.: +49 89 2399-2432

Enclosure(s): 6 page(s) reasons for the decision (Form 2916)
Wording of Articles 106 - 108 (Form 2019)
Claims 1-9 as granted

to EPO postal service: 12.
17.02.04



SUMMARY OF FACTS AND SUBMISSIONS

- I The European Patent Application Number 97 106 458.9 filed on 18.04.1997 was granted as European Patent Number EP-B-0 802 673 on 16.01.2002, Bulletin 2002/03, claiming the priority of the Japanese Application Number JP 9799396 dated 19.04.1996. The Proprietors of the Patent are HITACHI, LTD.

The Patent relates to "Broadcasting and communication receiver apparatus".

- II Notice of Opposition has been filed by the Opponents

Interessengemeinschaft für Rundfunkschutzrechte GmbH
Schutzrechtsverwertung & Co. KG on 16.10.2002.

- III In their notice of opposition the Opponents requested revocation of the patent in its entirety on the ground that the subject-matter of the claims as granted lacks an inventive step (Article 100(a) EPC).

In support of their arguments the Opponents cited following documents:

D1: EP-A2-0 669 761

D2: WO-A1-96 07270

D3: DE-A1-41 21 506

D4(1): Extract from "MacWEEK", v9, n11, p18(1), 13.03.1995, ISSN: 0892-8118, Harris, Scott

D4(2): Video Guide, User's Manual, The Associated Press, printed in the U.S.A., Part # 030-10 011 rev. 1.0



D4(3) Presentation of the above mentioned Video Guide on the Consumer Electronics Show in January 1995

- IV In a letter dated 30.05.2003 the Proprietors requested rejection of the opposition. Oral proceedings were requested if the Opposition Division was minded not to reject the opposition.
- V This decision is based on the patent as granted, the text of the claims is annexed to this decision.



REASONS FOR THE DECISION

1 ADMISSIBILITY

The opposition is admissible (Article 99(1), Rule 55 EPC).

2 PRIOR ART

- 2.1 The document D4(1) describes that VideoGuide Inc. previewed an on-screen GUI television programming guide at a Consumer Electronic Show. The document D4(2) was published by VIDEOGUIDE, INC. and is a user's manual of a video guide apparatus. It is noted that D4(3) is not actually a document per se, rather it is merely a statement which refers to the alleged presentation of the video guide apparatus described in D4(2) at the Consumer Electronic Show in January 1995.
- 2.2 The Proprietors stated in the letter dated 31.03.2003 that D4(1) does not give any detailed information about the previewed apparatus. Further, the Proprietors explained that there is no evidence given that D4(2) was shown or distributed together with the previewed apparatus. Therefore, in the opinion of the Proprietors the document D4(2) is not prior art.
- 2.3 The Opponents argue in their notice of opposition that D4(1) - D4(3) were acknowledged in another opposition procedure before the EPO. They did not comment on the Proprietor's arguments set out in the letter dated 31.03.2003.
- 2.4 The Opposition Division has come to the conclusion that D4(2) is not prior art according to Article 54(2). The statement of the Opponents that D4(1) - D4(3) were acknowledged in another opposition procedure is not relevant for the decision in case. The Opposition Division follows the argumentation of the



Proprietors in that there is no evidence that the previewed apparatus is identical with the apparatus described in D4(2) and that D4(2) has been made available to the public before the priority date of the contested patent. Therefore, the Opposition Division has decided not to acknowledge D2(4) as prior art.

3 INVENTIVE STEP

- 3.1 The subject-matter of the independent claim 1 is .
a broadcasting and communication receiver apparatus comprising:
receiver means for receiving program-associated information including title, start and end times of a broadcast program together with a video signal and an audio signal;
decoder means for decoding the program-associated information from the received signal;
screen display means for displaying the decoded program-associated information thereon;
command receiver means for receiving an input signal from a remote controller or from a key or keys provided to a main body of the receiver apparatus; and
display controller means for controlling the display screen based on the input signal, and
wherein a first display zone in which a plurality of character information strings are displayed is provided in the display screen means for displaying program-associated information,
characterized in that the display controller means has data quantity comparator means for comparing a magnitude of the first display zone with the quantity of display data and, when the data quantity is judged to be larger than the display zone, displayable part of the character string of the display data of the display controller means as well as a symbol indicative of omission attached to last tail part of the character string are displayed.



- 3.2 The Opponents have substantiated the lack of an inventive step of the subject-matter of claims 1-9 as ground of opposition only on the basis of D2 and D4(2). The Opponents explain in their notice of opposition that the document D2 discloses an apparatus according to the preamble of claim 1, and that the features of the characterizing portion are rendered obvious by D4(2). The Opponents are of the opinion that the skilled person would combine the teachings of D2 and D4(2) and thus arrive at the subject-matter of claim 1 without the exercise of inventive skill. For the independent claim 4, which is closely related to claim 1 and of narrower scope, the Opponents gave a similar argumentation for lack of an inventive step based on a combination of the teachings of D2 and D4(2).
- 3.3 The Opposition Division agrees with the Opponents in that the subject-matter of claim 1 differs from the apparatus described in D2 by the features of the characterizing portion of claim 1, which are the display controller means having data quantity comparator means for comparing a magnitude of the first display zone with the quantity of display data and that, when the data quantity is judged to be larger than the display zone, displayable part of the character string of the display data of the display controller means as well as a symbol indicative of omission attached to last tail part of the character string are displayed.

The Opposition Division has decided not to acknowledge D2(4) as prior art. The remaining prior art documents cited by the Opponents do not deal at all with the features of the characterizing portion or similar features. None of them discloses or suggests that the display controller means has data quantity comparator means for comparing a magnitude of the first display zone with the quantity of display data and, when the data quantity is judged to be larger than the display zone, displayable part of the character string of the display data of the display controller means as well as a symbol indicative of omission attached to last tail part of the character string are displayed.

Independent claim 4 contains features corresponding to features of the characterizing portion of claim 1.



Therefore, the Opposition Division has come to the conclusion that the subject-matter of claims 1 and 4 involves an inventive step.

4 CONCLUSION

The Opposition Division finds that the ground for the opposition does not prejudice the maintenance of the patent as granted. Therefore the opposition is rejected (Article 102(2) EPC).

Article 106
Decisions subject to appeal

- (1) An appeal shall lie from decisions of the Receiving Section, Examining Divisions, Opposition Divisions and the Legal Division. It shall have suspensive effect.
- (2) An appeal may be filed against the decisions of the Opposition Division even if the European patent has been surrendered or has lapsed for all the designated States.
- (3) A decision which does not terminate proceedings as regards one of the parties can only be appealed together with the final decision, unless the decision allows separate appeal
- (4) The apportionment of costs of opposition proceedings cannot be the sole subject of an appeal.
- (5) A decision fixing the amount of costs of opposition proceedings cannot be appealed unless the amount is in excess of that laid down in the Rules relating to Fees.

Article 107
Persons entitled to appeal and to be parties to appeal proceedings

Any party to proceedings adversely affected by a decision may appeal. Any other parties to the proceedings shall be parties to the appeal proceedings as of right.

Article 108
Time limit and form of appeal

Notice of appeal must be filed in writing at the European Patent Office within **two months** after the date of notification of the decision appealed from. The notice shall not be deemed to have been filed until after the fee for appeal has been paid. Within **four months** after the date of notification of the decision, a written statement setting out the grounds of appeal must be filed.

Further information concerning the filing of an appeal

- (a) The appeal is to be filed with the European Patent Office either at its seat in Munich, at its branch at The Hague or at its Berlin sub-office. The postal addresses are as follows:

| | | |
|--|--|---|
| (i) European Patent Office D-80298 Munich Germany (Telex: 523656 epmu d) (Fax: +49 89 2399-4465) | (ii) European Patent Office Branch at The Hague Patentlaan 2 Postbus 5818 NL-2280 HV Rijswijk (ZH) Netherlands (Telex: 31651 epo nl) (Fax: +31 70 340-3016) | (iii) European Patent Office Berlin sub-office D-10958 Berlin Germany (Fax: +49 30 25901-840) |
|--|--|---|
- (b) The notice of appeal must contain the name and address of the appellant in accordance with the provisions of Rule 26(2)(c) EPC, and a **statement** identifying the decision which is impugned and the extent to which amendment or cancellation of the decision is requested (see Rule 64 EPC). The notice of appeal and any subsequent submissions stating the grounds for appeal must be signed.
- (c) Notice of appeal must be **filed in writing** (typewritten or printed (Rule 36(2) EPC), by telegram, telex or fax (Rule 36(5) EPC; OJ EPO 6/89, 219-225; OJ EPO 9/89, 396)).
- (d) The fee for appeal is laid down in the Rules relating to Fees. The equivalents in the national currencies in which the fee for appeal can be paid are regularly published in the Official Journal of the European Patent Office under the heading "Guidance for the payment of fees, costs and prices".

~~displayed within the program name alternative column~~
 506. The selected first program name display column 503 is also displayed in the second program name display column 504. More specifically, at least part of the program title is displayed on the first program name display column 503, whereas, all the program title is wholly displayed without any omission on the second program name display column 504.

[0034] The broadcast start time, broadcast duration or broadcast end time of a program is expressed based on a measure of a time displayed in the time scale column 502. However, when the program broadcast duration is longer than a duration expressible on the program chart screen or when the program broadcast start or end time is located out of the time band expressed in the program chart being displayed, it is impossible to express the program broadcast start or end time within the program chart display screen. For the purpose of expressing that the program broadcasting starts with a time earlier than the time band being displayed or that the program broadcasting ends in a time later than the time band being displayed; the continuation display pattern 505 is used.

[0035] By using the continuation display pattern 505, when the broadcast duration is overlapped as located ahead or behind the time band being displayed, it is possible to express that the broadcast start or end time is out of the time band being displayed.

[0036] Shown in Fig. 9 is a fourth example of the program-associated information display screen in Fig. 7, which includes a third time information display column 601.

[0037] On the program display screen, the third time information display column 601 is provided within the program-associated information display screen to express therein broadcast start and end times of a program. Therefore, when the program broadcast duration is longer than a duration displayable on the program display screen so that the program broadcast start or time cannot be expressed within the time scale column 502 of the program chart screen; it is possible to clearly display the broadcast start and end times, i.e., the time information of the received program-associated information without any omission.

[0038] The time information display column 601 may be an independent display zone or may be provided within the second program name display column 504 to be expressed together with the program title.

[0039] Although explanation has been made in connection with the program display screen based on the digital broadcasting system in the present embodiment, the present invention is not limited to the specific digital broadcasting system but may be applied to such a broadcasting system that the program-associated information is transmitted as multiplexed to the conventional analog television broadcasting system. Further, the present invention is not restricted to the program chart display screen but may be applied to other general dis-

~~(play one.~~

[0040] In accordance with the present invention, there can be provided, when it is desired to display information associated with an item selected condition, a program-associated information display screen of a broadcasting and communication receiver apparatus, on which all display data of the program-associated information received by the receiver apparatus are fully displayed without any omission.

[0041] Further, the user can eliminate the need for purchasing newspapers or magazines carrying the program-associated information.

15 Claims

1. A broadcasting and communication receiver apparatus comprising:

receiver means (118) for receiving program-associated information (S_p) including title, start and end times of a broadcast program together with a video signal (S_v) and a audio signal (S_a);
 decoder means (119) for decoding the program-associated information (S_p) from the received signal;
 screen display means (105) for displaying the decoded program-associated information thereon;
 command receiver means (106) for receiving an input signal from a remote controller or from a key or keys provided to a main body of the receiver apparatus; and
 display controller means (109) for controlling the display screen based on the input signal, and

wherein a first display zone (401, 503) in which a plurality of character information strings are displayed is provided in the display screen means for displaying program-associated information (S_p), **characterized in that** the display controller means (109) has data quantity comparator means (112, 116) for comparing a magnitude of the first display zone with the quantity of display data and, when the data quantity is judged to be larger than the first display zone, then the displayable part of the character string of the display data of the display controller means (109) as well as a symbol (301) indicative of omission attached to a last tail part of the character string are displayed.

2. A broadcasting and communication receiver apparatus as set forth in claim 1, wherein, in addition to the predetermined first display zone (401, 503), a second display zone (402, 504) larger in the number of displayable characters than the first display zone is provided, and the display controller means (109)

allows all the display data to be displayed in the second display zone (402, 504).

3. A broadcasting and communication receiver apparatus as set forth in claim 2, wherein information displayed in the second display zone (402, 504) is the same as information of the specific first display zone (401, 503) selected based on an user input.

4. A broadcasting and communication receiver apparatus comprising:

receiver means (118) for receiving program-associated information (S_P) including title, start and end times of a broadcast program together with a video signal (S_V) and a audio signal (S_A); decoder means (119) for decoding the program-associated information (S_P) from the received signal;

screen display means (105) for displaying the decoded program-associated information thereon;

command receiver means (106) for receiving an input signal from a remote controller or from a key or keys provided to a main body of the receiver apparatus; and

display controller means (109) for controlling the display screen based on the input signal,

wherein the screen display means for displaying the decoded program-associated information (S_P) thereon includes at least a first program name field (506) indicative of a title of a program, a channel number field (501) indicative of a channel number and a plurality of information fields (502) such as time scale fields (502) indicative of a time being displayed, each of the information fields uses at least a character string and a background, the information fields form a program chart indicative of program broadcast schedules, **characterized in that** one end of the first program name field (506) indicates a program start time and the other thereof indicates a program end time, the display controller means (109) includes data amount comparator means (112, 116) for comparing a size of the first program name field (506) with the amount of program name data and, when the data amount comparator means (112, 116) judges that the amount of program name data is larger than the size of the first program name field, the display controller means (109) causes a displayable character string of the display data as well as a symbol (301) indicative of omission attached to a last tail part of the character string to be displayed.

5. A broadcasting and communication receiver apparatus as set forth in claim 4, wherein the program-associated information display screen further in-

cludes, in addition to the predetermined first program name field (506), a second program name field (504) larger in the number of displayable characters than the first program name field (506), and the display controller means (109) causes all the program name data to be displayed in the second program name field (504).

6. A broadcasting and communication receiver apparatus as set forth in claim 5, wherein information displayed on the second program name field (504) is the same as information of the specific first program name field (506).

7. A broadcasting and communication receiver apparatus as set forth in claim 4, wherein the display controller means (109) includes time comparator means (116) for comparing a program broadcast time to be displayed in the first program name field (506) with a time band to be displayed in the time scale field (502) and, when the time comparator means judges that the broadcast end time is out of the time band displayed in the time scale field (502), the display controller means changes a shape such as a continuation display pattern (505) of a left or right end of the first program name field (506) in the background.

8. A broadcasting and communication receiver apparatus as set forth in claim 5, wherein the program-associated information display screen further includes a further display zone (601) for displaying therein time information including start and end times of a selected program.

9. A broadcasting and communication receiver apparatus as set forth in claim 7, wherein the program-associated information display screen further includes a further display zone (601) for displaying therein time information including start and end times of a selected program.

I-Patentansprüche

1. Rundfunk- und Kommunikationsempfangsgerät, enthaltend:

Empfängereinrichtungen (118) zum Empfangen von programmassozierten Informationen (S_P), enthaltend einen Titel, Anfangs- und Endzeiten eines Rundfunkprogramms zusammen mit einem Videosignal (S_V) und einem Audiosignal (S_A);

Dekodiereinrichtungen (119) zum Dekodieren der programmassozierten Informationen (S_P) aus dem empfangenen Signal;

Bildschirmanzeigeeinrichtungen (105) zum An-



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22. Nov 2002
Frist 30.03.03 not / sed
Beitrag 28.02.03 not / sed
act. hls

Reference
A 25432 EP ✓

Application No./Patent No.
97106458.9 - 2202 / 0802673

Applicant/Proprietor
Hitachi, Ltd.

Communication of notices of opposition (R. 57(1) EPC)

Notice of opposition has been filed within the opposition period by:

01. Interessengemeinschaft/für Rundfunkschutzrechte GmbH/Schutzrechtsverwertung &Co. KG/Bahnstra
sse 62/40210 Düsseldorf/DE//

The notice of opposition indicated above has been already communicated to you.

You are requested to file your observations within a period of **4 months** from notification of this communication.

You may also file amendments, where appropriate, to the description, claims and drawings within the period specified. One set of these documents is to be filed.

If you introduce documents which have not yet been mentioned during the proceedings, your attention is drawn to Rule 59 EPC.

Enclosures:

Opposition Division





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ISENBRUCK

January 7, 2003

A25432EP AI/MTa/bb

Translation of the reasoning of opposition of October 16, 2002

In the name and on behalf of the above-mentioned opponent I hereby give notice of

OPPOSITION

according to Art. 99 EPC against the grant of the above-mentioned patent with the title

BROADCASTING AND COMMUNICATION RECEIVER APPARATUS

and request to revoke the patent in its entirety because of lack of patentability according to Art. 100 EPC in conjunction with Art. 52 to 57 EPC. The subject-matter of the European patent does not involve an inventive step in comparison with the state of the art.

It is requested to issue an intermediate notification before deciding upon the opposition.

The opposition is filed via telefax.

The power of attorney will be handed in later.

It is asked to charge the opposition fee at the amount of

EUR 610,00

from our bank account no. 28 000 788.



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Further, file inspection is requested and it is asked to forward copies of the following parts of the file:

1. office actions
2. response letters of applicant thereto
3. in case that an interview or an oral hearing has taken place it is asked to send the minutes.

We ask to charge the fee for the copies with respect to the file inspection also from our bank account no. 28 000 788.

The opposition is based on the following opposing material:

D1: EP-A2-0 669 761

D2: WO 96/07270 A1

D3: DE-A1-41 21 506

D4(1): Abstract of MacWEEK, v. 9, n. 11, p 18(1) of 13.03.1995, ISSN: 0892 - 8118 (Harris, Scott)

D4(2): VideoGuide, User's Manual, The Associated Press, printed in the U.S.A. Part # 030-10 011 rev. 1.0,
Copyright 1995 Video Guide, Inc. (altogether 28 pages)

D4(3): Presentation of the above-mentioned program guide at the Consumer Electronics Show in January 1995

Remarks to the references D4(1), D4(2) and D4(3):

These references were cited by another opponent (Herbert Smith) in the opposition procedure against EP-B1-0 819 354 (proprietor: United Video Properties) as opposing material and were there acknowledged as state of the art according to Art. 54(2) EPC.



The above-mentioned references D1, D2 and D3 have been already cited on the front page of the patent-in-suit.

REASONING

1. According to the preamble of claim 1, the patent-in-suit relates to a broadcasting and communication receiver apparatus, comprising
 - a) receiver means for receiving program-associated information, including title, start and end times of a broadcasting program together with a video signal and an audio signal;
 - b) decoder means for decoding the program-associated information from the received signal;
 - c) screen display means for displaying the decoded program-associated information thereon;
 - d) command receiver means for receiving an input signal from a remote controller or from a key or keys provided to a main body of the receiver apparatus; and
 - e) display controller means for controlling the display screen based on the input signal, and
 - f) wherein a first display zone in which a plurality of character information strings are displayed is provided in the display screen means for displaying program-associated information.

In such an apparatus should be seen according to the characterizing part of claim 1 the inventive step in that

- g) the display controller means comprises data quantity comparator means for comparing a magnitude of the first display zone with the quantity of display data and,



h) when the data quantity is judged to be larger than the first display zone, the displayable part of the character string of the display data of the display controller means as well as a symbol indicative of omission attached to a last tail part of the character string are displayed.

2. Furthermore, the patent-in-suit according to the preamble of claim 4 relates to broadcasting and communication receiver apparatus, comprising:

- a) receiver means for receiving program-associated information, including title, start and end times of a broadcasting program together with a video signal and an audio signal;
- b) decoder means for decoding the program-associated information from the received signal;
- c) screen display means for displaying the decoded program-associated information thereon;
- d) command receiver means for receiving an input signal from a remote controller or from a key or keys provided to a main body of the receiver apparatus; and
- e) display controller means for controlling the display screen based on the input signal,
 - i) wherein the screen display means for displaying the decoded program-associated information thereon includes at least:
 - i1) a first program name field indicative of a title of a program,
 - i2) a channel number field indicative of a channel number and
 - i3) a plurality of information fields indicative of a time being displayed,
 - i4) whereby each of the information fields uses at least a character string and a background, whereby the information fields form a program chart indicative of program broadcast schedules.

In such an apparatus should be seen according to the characterizing part of claim 4 the inventive step in that:



- j) one end of the first program name field indicates a program start time and the other thereof indicates a program end time;
- k) the display controller means includes data amount comparator means for comparing a size of the first program name field with the amount of program name data
- l) and in that when the data amount comparator means judges that the amount of program name data is larger than the size of the first program name field,
- m) the display controller means causes a displayable character string of the display data as well as a symbol indicative of omission attached to a last tail part of the character string to be displayed.

3. A broadcasting and communication receiver apparatus with the features of claim 1 is not based on an inventive activity.

3.1. From reference D2 a broadcasting and communication receiver apparatus is known which comprises all features of the preamble of the attacked claim 1.

The receiver means indicated in feature a are available in D2 in form of the there in Fig. 1 shown tuner 11. From the description of D2, page 4, lines 26 - 28, in conjunction with page 5, lines 3 - 8 and 12 - 14, follows that in D2 the tuner is designated for receiving video signals, audio signals and program-associated information, containing a title and information about start and end times of a broadcast program.

Since the program-associated information included in the output signal of the tuner is used for updating the data stored in the program schedule memory 22, it has to be decoded into the memory before the transmission. Therefore, D2 comprises also decoder means in accordance with feature b of the attacked claim 1.



The screen display means for displaying the decoded program-associated information indicated in feature c are available in D2 in form of the there in Fig. 1 shown screen 20 and are further disclosed in the description of D2 on page 5 in lines 23 and 24.

The command receiver means according to feature d of the attacked claim 1 are indicated in D2, page 5, lines 18 -19.

Furthermore, D2 comprises in accordance with feature e display control means for controlling the display screen on the basis of the input signal, as can be taken from D2, page 5, lines 19 - 22.

Further, in D2 a first display zone is also provided in which a plurality of character information strings are displayed in order to display the program-associated information. For this, it is referred to D2, page 5, lines 35 - 37.

- 3.2 Reference D4(2) which is a User Manual for a "VideoGuide-Product" discloses different displays of program lists which can be represented on the screen of a television receiver using the known device (see page 4, upper half). To these lists belong among other things a "Program Guide", "Program Views" and a "Sports Guide" as disclosed on top of page 5. It can be taken from page 10 of D4(2) that in conjunction with the Program Guide three formats can be chosen, namely a standard format, an extended format and an alphabetic format.

An example for a representation of a program list in standard format is indicated on page 11. From this figure it is apparent that in D4(2) in accordance with feature h of the attacked claim 1, if the amount of data to be displayed of the display data is larger than the provided display zone, the displayable part of the respective character string and a symbol, which indicates an omission and a continuation, respectively, and is positioned at the end of the displayable part, are displayed. Such sym-



bols are for example the three dots after the character string "ABC World Ne" or after the character string "Real Stories O". Another such symbol is the arrow, which is positioned behind the character string "Little Nemo: Adventures in Slum ...".

Further examples for the utilization of such symbols which indicate an omission and a continuation, respectively, are also to be taken from the figures on page 12, on page 17, on page 19 and page 21 of this reference. For example, the figure on page 17 contains an arrow 9, by which is signaled to the user that the program-associated information displayed in the display field 8 is not complete. This is confirmed by the comment to the arrow 9 in the last line on page 17. The figure on page 19 comprises an arrow 7, which indicates that the summary shown in field 6 is not complete.

In D4(2) it is left open how the respective omission or continuation character is generated. The person skilled in the art which reads reference D4(2) is therefore forced to consider how said omission or continuation characters can be generated. Since he does not know in advance how large the amount of data of the information which has to be displayed each time is, but, on the other hand, he knows how large the respective display field on the screen is, it is immediately apparent that a comparison of the size of the display field with the amount of data of the information to be displayed has to be performed to realize if the information which has to be displayed fits the present display field or not. In case the information which has to be displayed fits the display field, it can be displayed normally. In case the information which has to be displayed does not fit the display field, the displayable part of the information is displayed together with an omission or continuation character according to the disclosures in D4(2), so as to signal the user that the displayed information does not correspond to the complete data record which has to be displayed. Therefore, feature g of the attacked claim 1 results from the disclosure content of D4(2) in an obvious way.



- 3.3 Based on the state of the art according to D2, the object of the patent-in-suit can be seen in that it makes the display of program-associated information clearer.

In the light of this problem, the person skilled in the art would have recognized that the solution disclosed in D4(2) to use omission respectively continuation characters signals the user immediately that the each time displayed data string does not correspond to the available complete data record.

Therefore, the person skilled in the art would have jointly considered references D2 and D4(2) and would thereby have come in an obvious way to the entire features of the attacked claim 1.

4. Dependent claim 4 also relates to a broadcasting and communication receiver apparatus. Features a - e of claim 4 correspond with features a - e of claim 1. With respect to these features, it can therefore be referred to the above statements to claim 1.

Claim 4 differs from claim 1 in the features i - m indicated in the above paragraph 2.

Firstly, it can be noticed that the wording of claim 4 reads "data amount comparator means (112, 116)" whereas in claim 1 "data quantity comparator means (112, 116)" are specified. It is unclear whether patentee wants to express different functions with these different wordings or whether the different wordings are only based on a mistake. Since according to "Langenscheidt" the word "amount" as well as the word "quantity" can be translated as "Menge", and since in the German translation of the patent claims it is spoken of "Datenmengen-Komparatoreinrichtungen" respectively "Datenmengen-Vergleichseinrichtungen", the opponent assumes that the mentioned wordings should express no different functions.



Under these circumstances, opponent is of the opinion that also the subject-matter of claim 4 does not involve an inventive step.

Hereto, it is in addition to the above comments referred to the following:

Also in D4(2) the screen display means includes at least for displaying the decoded program-associated information the following:

- a first program name field indicative of a title of a program (cf. D4(2), page 11, field "Little Nemo: Adventures in slum ...>", with feature i1);
- a channel designation field, which displays a channel designation (cf. D4(2), page 11, field with the channel logos, with feature i2); if the channel designations are channel logos or channel numbers, is irrelevant since both forms of representation are common to the person skilled in the art (see hereto also D2, Fig. 3, in which channel numbers are represented);
- a number of fields, which indicates a just displayed time (cf. D4(2), page 11, field with the time data "6:30 PM", "7:00 PM" and "7:30 PM", with feature i3);
- whereby each of the information fields uses at least one character string and one background, whereby the information fields form a chart, which corresponds to a program broadcasting schedule (cf. D2, figure on page 11, with feature i4).

In accordance with feature j of the attacked claim 4 within the figure on page 11 of D4(2) also time data are included which deliver information about the program start time and the program end time (see time data "6:30 PM", "7:00 PM" and "7:30 PM").

Furthermore, it is also apparent from the figure on page 11 of D4(2) that in the known case in accordance with the features l and m at that time when the amount of program name data is larger than the size of the first program name field, the dis-



play control means causes the displayable character string of the display data as well as a symbol, which indicates an omission and is attached to the displayed data string, to be displayed (see for example the indication "Little Nemo: Adventures in slum ...>" in the figure on page 11 of D4(2)).

Here it is also left open how the omission and continuation character, respectively, is generated. The person skilled in the art which reads reference D4(2), is therefore forced to take into consideration how said omission and continuation characters, respectively, can be generated. Since he does not know in advance how large the amount of data of the information which has to be displayed at a time, is, but on the other hand he knows how large the respective display field on the screen is, it is immediately obvious that a comparison of the size of the display field with the amount of data of the information, which has to be displayed, must be performed to recognize if the information, which has to be displayed, is fitting into the existing display field or not. In case the information which has to be displayed fits the display field, it can be displayed normally. In case the information which has to be displayed does not fit the display field, the displayable part of the information is displayed together with an omission or continuation character according to the disclosures in D4(2), so as to signal the user that the displayed information does not correspond to the complete data record which has to be displayed. Therefore, feature k of the attacked claim 1 results from the disclosure content of D4(2) in an obvious way.

Based on the state of the art according to D2, the object of the patent-in-suit can be seen in that it makes the display of program-associated information clearer.

In the light of this object, the person skilled in the art would have recognized that the solution disclosed in D4(2) to use omission respectively continuation characters signals to the user immediately that the each time displayed data string does not correspond to the available complete data record.

Therefore, the person skilled in the art would have jointly considered references D2 and D4(2) and would thereby have come to the entire features of the attacked claim 4.

5. After omission of claims 1 and 4 also the dependent claims indicated nothing inventive.

Especially in connection with the attached it is referred from

| | |
|---------|---|
| claim 2 | to D2, Fig. 35, fields 48 and 44, |
| claim 3 | to D2, Fig. 35, fields 48 and 44, |
| claim 5 | to D2, Fig. 35, fields 48 and 44, |
| claim 6 | to D2, Fig. 35, fields 48 and 44, |
| claim 7 | to D4(2), page 11, arrow after "Little Nemo: Adventures in Slum ...", |
| claim 8 | to D4(2), representation on page 11, line with the time data, |
| claim 9 | to D4(2), representation on page 11, line with the time data. |

6. The initially filed request to cancel the patent-in-suit in its entirety is therefore justified.

Signature

Enclosures: 1 duplicate
D4(1) and D4(2), in duplicate



VideoGuide™

User's Manual

Contents:

General Information

- 2 Important Safeguards
- 3 Warranty Information
- 4 Welcome to VideoGuide
- 4 What equipment do I need?
- 5 What can I do with VideoGuide?

How to Use VideoGuide

- 6 The VideoGuide Remote
- 8 The VideoGuide Menu
- 10 ProgramGuide
- 14 ProgramViews
- 16 NewsGuide
- 18 SportsGuide
- 20 Recording with VideoGuide

Setup

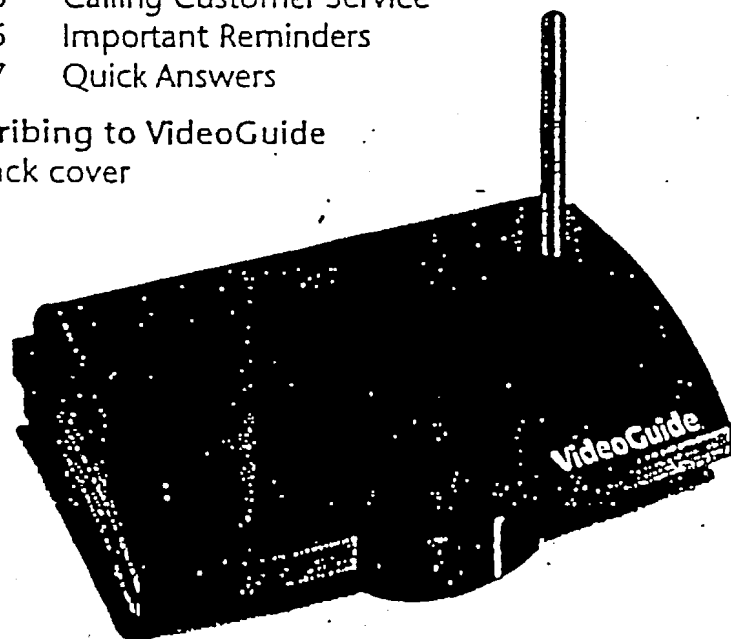
- 22 TV, VCR & Cable Box Configurations
- 24 Changing Setup Settings
- 25 Setup Options

Troubleshooting

- 26 Calling Customer Service
- 26 Important Reminders
- 27 Quick Answers

Subscribing to VideoGuide

back cover



Important Safeguards

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

Read all safety and operating instructions before VideoGuide is operated, retain safety and operating instructions for future reference, heed all warnings on VideoGuide and in the operating instructions, follow all operating and use instructions.

Cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachments. Do not use attachments not recommended by VideoGuide Inc. as they may cause hazards.

Water and Moisture. Do not use VideoGuide near water- for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in wet basement, or near a swimming pool, and the like.

Accessories. Do not place VideoGuide on an unstable cart, stand, tripod, bracket or table. VideoGuide may fall, causing serious injury to a child or adult, and serious damage to the appliance. No other cart, tripod, bracket or table is recommended by VideoGuide Inc.

Ventilation. VideoGuide should never be placed near or over a radiator or heat register. VideoGuide should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

Power Sources. VideoGuide should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.

Grounding or Polarization. VideoGuide is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Power-Cord Protection. Power-Supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

Outdoor Antenna Grounding. If an outside antenna or cable system is connected to VideoGuide, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connecting to grounding electrodes, and requirements for the grounding electrode.

Lightning. For added protection for VideoGuide during a lightning storm, unplug it from the wall outlet and disconnect antenna or cable system. This will prevent damage to VideoGuide from lightning and power-line surges.

Power Lines. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Overloading. Do not overload wall outlets and extension cords as it can result in a risk of fire or electric shock.

Object and Liquid Entry. Never push objects of any kind into VideoGuide through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquids on VideoGuide.

Servicing. Do not attempt to service VideoGuide yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service. Unplug VideoGuide from the wall outlet and refer servicing to qualified service personnel under these conditions: a) when the power-supply cord or plug is damaged; b) if liquid has been spilled, or objects have fallen into VideoGuide; c) if VideoGuide has been exposed to rain or water; d) if VideoGuide does not operate normally by following the operating instructions; e) if VideoGuide has been dropped or the cabinet has been damaged; f) when VideoGuide exhibits a distinct change in performance - this indicates a need for service.

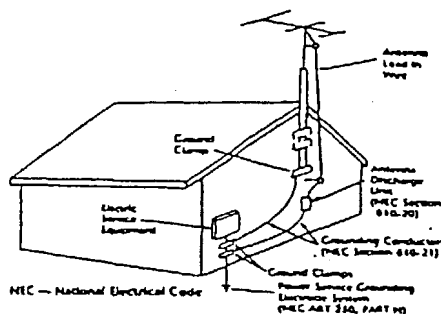
Replacement Parts. When replacement parts are required, be sure the service technician has used replacement parts specified by VideoGuide Inc. or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check. Upon completion of any service or repairs to VideoGuide, ask the service technician to perform safety checks to determine that VideoGuide is in proper operating condition.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

This equipment generates and uses radio frequency and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. This equipment has been tested and found to comply with the limits of a Class B computing device in accordance with the specification in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.



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Full One Year Warranty Information

Please keep your sales receipt as evidence of purchase date.

VideoGuide Product:

VideoGuide, Inc. ("we") warrants to the original purchaser ("you") that the VideoGuide Product ("the Product") will be free from any defect in materials or workmanship for one full year from the date of purchase. In the event of a claim under this warranty, we will repair the Product or replace it with a functionally equivalent unit. If we repair or replace the Product, we may use new or reconditioned components or units. Repair or replacement by us is your exclusive remedy. To obtain warranty service, call VideoGuide, Inc., at 1-800-848-4331 to obtain instructions.

This warranty does not cover damage to the Product which occurs during shipment, damage or malfunctions arising from accident, misuse, abuse, neglect, mishandling, misapplication, improper installation, alteration or modification, acts of God, commercial use, service not performed by us or a service representative that we authorize, damage to or failures of the Product caused by improper connections, and damage to or failures of the Product caused by use in connection with products not supplied or recommended by us.

VideoGuide Services:

We offer subscription services ("Services") which we may vary from time to time at our sole option. We make no warranty as to the accuracy of the information or that some or all of the Services to which you subscribe will be provided on an uninterrupted basis. If a Service to which you subscribe is interrupted, your sole remedy will be an abatement of the subscription charge for the interrupted Service while the Service is interrupted.

SOLE REMEDY:

CONSUMERS: THIS WARRANTY IS THE SOLE AND ENTIRE EXPRESS WARRANTY THAT WE GIVE, AND IS IN LIEU OF AND EXCLUDES ALL OTHER EXPRESS WARRANTIES OF ANY NATURE WHATSOEVER. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

NON-CONSUMERS: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY THAT WE GIVE, AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow for an exclusion or limitation of implied warranties, or incidental or consequential damages, so the above limitation or exclusion may not apply to you.

STATE LAW RIGHTS: This warranty gives you specific legal rights, and you may have other rights which may vary from state to state.

COPYRIGHT NOTICE:

All information provided by VideoGuide under any VideoGuide service is subject to copyright by the respective copyright holders.

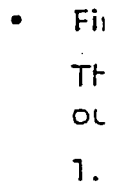
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Note:

VideoGuide does not increase the number of channels or types of programming you receive. If you wish to add additional programming, call your local cable television service.



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Note

In order for VideoGuide to change channel at least one of your TV viewing devices (TV/VCR or cable box) must have a wireless remote control. In order for VideoGuide to record, your VCR must have a wireless remote control.

What can I do with VideoGuide?

- Find out what's on TV.

There are many ways you can use VideoGuide to find out what's on.

1. ProgramGuide displays a familiar grid listing of TV shows and descriptions by channel and time for the next 7 days. (see page 10)
2. ProgramViews displays a list of upcoming Movies or Sports shows and descriptions for a full 7 days. (see page 14)
3. SportsGuide not only gives you up-to-the-minute game scores and summaries, but lets you know which games are on TV – just look for the "TV" icon in the game tile. (see page 18)

- Tune directly to a show.

Simply select a show that is currently on from ProgramGuide, ProgramViews, or SportsGuide, press the TV button on the VideoGuide remote, and VideoGuide changes the channel of your TV. Any show you select is on instantly!

- Record a show at the press of a button.

Select any show – one that's on now or anytime in the next 7 days – from ProgramGuide, ProgramViews, or SportsGuide, just press a button on the VideoGuide remote, and that's it. VideoGuide will automatically record the show! (see page 20)

- Keep pace with breaking news and weather forecasts.

NewsGuide brings you the latest international, national, and regional news, and complete local weather forecasts fresh off the wire. No more waiting for the evening news or tomorrow's newspaper. (see page 16)

- Always know the score.

SportsGuide tracks all the major professional and college games giving you instant access to continuously updated game scores and summaries. (see page 18)

Control your TV and cable box with VideoGuide's remote.

VideoGuide's remote control acts as a universal remote. It not only controls the VideoGuide receiver but also the most used functions of your TV and cable box. (See pages 6-7 for details.)

VideoGuide describes TV listing information for programming in your area.

VideoGuide does increase the number of channels or types of programming you can receive. If you wish to add a program,

calling, call your local cable television service.

For more information, see the VideoGuide to your TV and cable box. You can also find out how to use the VideoGuide remote control. In order to use the VideoGuide remote control, you must have a VideoGuide receiver and a VideoGuide remote control.

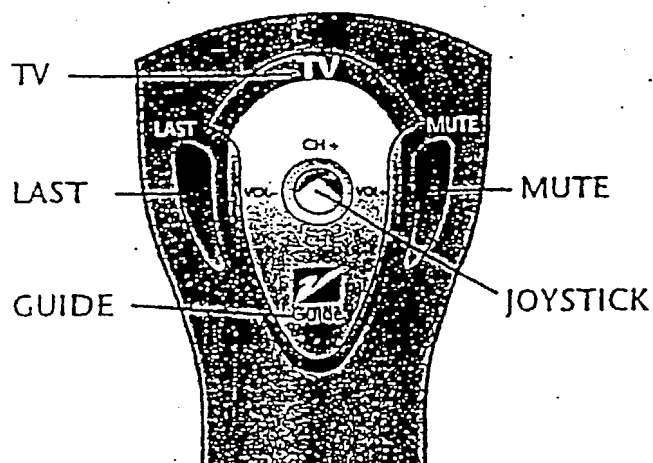
How to use the VideoGuide remote

The VideoGuide remote control enables you to use all the VideoGuide services and features. The remote also performs most of the major functions of your TV and cable box remotes.

The VideoGuide remote performs different functions depending upon whether you are watching TV or using a VideoGuide service.

While watching TV:

While you watch TV, the VideoGuide remote is a "universal" remote performing the most used functions of your TV and cable box remotes. These functions are labeled on the remote.



- TV** Press the TV button to turn your TV on and off.
- GUIDE** Press the GUIDE button to enter the VideoGuide Menu and access all VideoGuide services.
- LAST** Press the LAST button to switch between two shows selected from ProgramGuide.
- MUTE** Press the MUTE button to turn the TV sound on and off.
- JOYSTICK** Move the JOYSTICK left and right to adjust the TV volume.
Move the JOYSTICK up and down to change channels.

TIP:

Using the LAST button:

If you want to switch back and forth between two shows, simply select one show from ProgramGuide and press the TV button to go to that show, then reenter ProgramGuide, select the second show and press the TV button to go to that show. Pressing the LAST button will switch you back and forth between the two selected shows.

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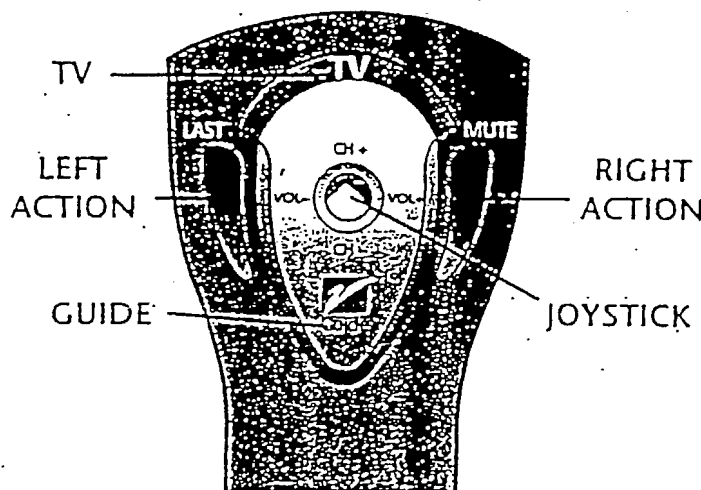
RIGHT
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JOYSTICK

How to use the VideoGuide remote

While using a VideoGuide service:

The VideoGuide remote provides you with easy control of the VideoGuide services and features.



TV Press the TV button to go to a TV show selected in a VideoGuide service or to leave a VideoGuide service and return to watching TV.

GUIDE Press the GUIDE button to enter a service selected from the VideoGuide Menu or to return to the VideoGuide Menu while using a VideoGuide service.

LEFT ACTION Press the LEFT ACTION button to perform the function labeled in the banner. (see TIP)

RIGHT ACTION Press the RIGHT ACTION button to perform the function labeled in the banner. (see TIP)

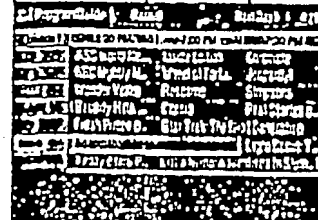
JOYSTICK Move the JOYSTICK left or right, up or down to scroll around the VideoGuide services and make selections.

TIP:

ACTION button function labels:

At the top of each VideoGuide screen is an area called the banner. The middle area of the banner contains a picture of the button area of the remote with labels identifying the function of the LEFT and RIGHT ACTION buttons. The functions change depending upon which service you are using and what function you are performing. These labels are always on screen to guide you.

| LEFT ACTION button label | RIGHT ACTION button label |
|--------------------------|---------------------------|
| | |



VideoGuide Menu

What you can do from the VideoGuide Menu:

- The VideoGuide Menu provides a simple way to find, select, and enter a VideoGuide service.
- From the VideoGuide menu, you may also check the status of your subscription, change your setup settings, or check the quality and strength of the signal your receiver is receiving.

How to enter VideoGuide Services:

1. Each VideoGuide service has its own "tile." While on the VideoGuide Menu, move the VideoGuide remote's JOYSTICK up or down to select a service tile.
2. Some services offer multiple formats or options. From the desired service tile, select a format or option by moving the JOYSTICK right or left.
3. Once the service and desired format is selected, press the VideoGuide remote's GUIDE button to enter the service.

Entering the VideoGuide Menu

While watching television or using a VideoGuide service, simply press the GUIDE button on the VideoGuide remote to access the VideoGuide Menu.

Menu Tile Colors: (colors may vary from TV to TV)

The service tile colors change depending upon whether or not you are subscribed, or whether you are in the 30 day free subscription period.

If a service tile is:

Then:

Dark Green

You have subscribed to this service

Green

You are in the 30 day free subscription period

Gray

You are not subscribed to this service

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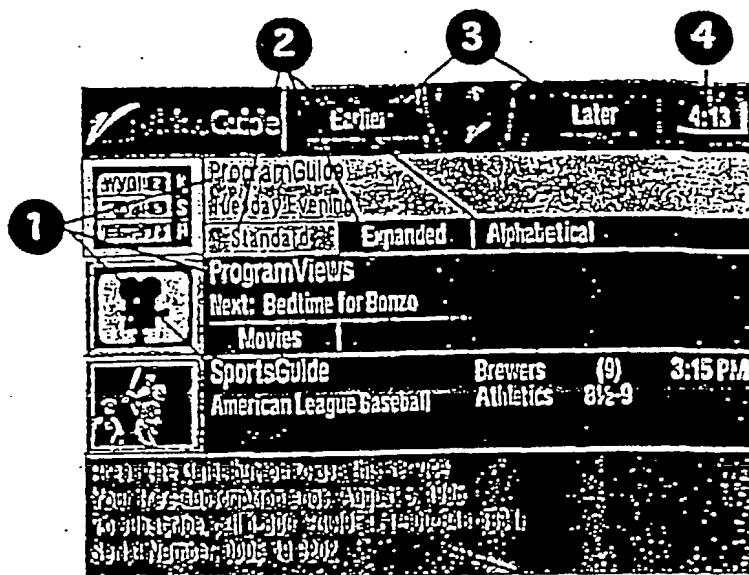
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VideoGuide Menu



- 1 Each service has a "tile"; move the JOYSTICK up or down to select a service tile. (When a tile is selected it "brightens.") Press the GUIDE button to enter the selected service.
- 2 Some services offer multiple formats or options. Move the JOYSTICK left or right to select the desired format.
- 3 You may select the time and day you wish to enter ProgramGuide and the sport on which you wish to enter SportsGuide. Select the service tile and press the LEFT or RIGHT ACTION buttons to cycle through the choices. The current choice is displayed in the service tile.
- 4 The clock in the upper right hand corner of all screens is set automatically once VideoGuide begins receiving information. When your VideoGuide receiver needs new batteries, the clock alternately flashes the time and a picture of a battery.
- 5 The Information Box is at the bottom of every VideoGuide screen. When a service tile is selected during the 30 day free subscription, it explains how to enter the service and how to subscribe.

TIPS:

VideoGuide's screens are arranged in blocks of information we call "tiles." You can "select" a tile by moving the JOYSTICK up or down, left or right. When a tile is selected, it "brightens" and the lettering turns black.

At the top of each VideoGuide screen is an area called the "banner." The banner displays the name of the service you are using, labels for the VideoGuide remote's ACTION buttons (see 3 at left) and a clock (see 4 at left).

⚠ When your VideoGuide receiver requires new batteries, the clock alternately flashes the time and a battery icon. Always keep fresh batteries in your VideoGuide receiver. In the event of a household power failure, the batteries enable VideoGuide to retain information.

ProgramGuide

What you can do from ProgramGuide:

- Find out what's on TV. ProgramGuide is a seven day list of show titles and show descriptions. Choose between three formats, "Standard," "Expanded," and "Alphabetical."
- Tune directly from the grid to a show that is currently on. Simply select a show and press the TV button on the VideoGuide remote. VideoGuide changes the channel of your TV and the show is on instantly!
- Set shows to record. Select a show and press the LEFT ACTION button. (See page 20 for more on recording.)

Standard Format:

The Standard ProgramGuide format lists seven days of television show titles in a familiar grid format. Channel logos make channel identification quick and easy. Show descriptions are displayed across the bottom. Use the JOYSTICK to move left or right, up or down to select the show you wish. Jump ahead 24 hours at a time by pressing the RIGHT ACTION button (labeled "Next Day" in the banner). Press the TV button to tune directly to a selected show or press the LEFT ACTION button to record.

Expanded Format:

The Expanded ProgramGuide format presents more shows (2 full hours) and more channels (8) than the Standard format for those who want a wider view of program listings. (see page 12)

Alphabetical Format:

The Alphabetical ProgramGuide format lets you search for a show by name. Move the JOYSTICK left or right to scroll through the alphabet. Move the JOYSTICK up or down to scroll through the show titles to select a show. Press the RIGHT ACTION button (labeled "Display" in the banner) to display the channels, days, and times the selected show is on over the next seven days. (see page 13)

Show Tile Colors: (colors may vary from TV to TV)

Dark Green: Other

Purple: Sports

Brown: Movies

Blue: News

Green: Children

Red: Marked to Record

Entering ProgramGuide:

From the VideoGuide Menu, move the VideoGuide remote's JOYSTICK up to select the ProgramGuide Service tile. Move the JOYSTICK left or right to select the desired "Standard," "Expanded," or "Alphabetical" format. Press the GUIDE button and the selected ProgramGuide format will appear.

TIP:
You may select a time and day to enter ProgramGuide by pressing the RIGHT ACTION button (labeled "Later" in the banner) while still in the VideoGuide Menu.

ProgramGuide – Standard Format

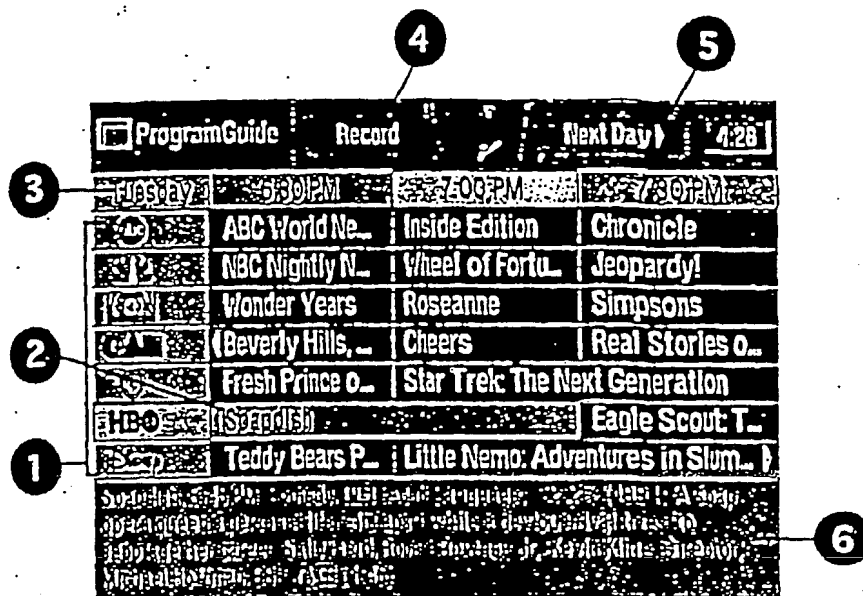
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- 1 Move the JOYSTICK left or right, up or down to select a show to watch or record.
- 2 Press the TV button on the VideoGuide remote to tune directly to the channel of the selected show.
- 3 The day of the week for the listings being displayed appears in the top left corner.
- 4 To Record a selected show, just press the LEFT ACTION button—labeled "Record" in the banner. (See page 20 for more details on recording.)
- 5 Press the RIGHT ACTION button—labeled "Next Day" in the banner—to jump 24 hours ahead.
- 6 The Information Box contains information about the selected show.

SmartSort: a note on channel order

Initially, ProgramGuide lists channels in order of national popularity. As you use VideoGuide, the SmartSort feature begins shifting the channel order, moving the channels you select most often to the top of the grid. The resulting "personalized" ProgramGuide will make it easier than ever to select what you want to watch or record.

NOTE:

VideoGuide may display more channels than you receive. If VideoGuide correctly tunes to the channels you receive, it is set up correctly. The SmartSort feature will move the channels you don't use to the bottom of the list.



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The diagram shows a television screen displaying the 'Program Guide' in an alphabetical format. At the top, there are buttons for 'Program Guide', 'Record', and 'Hide', along with a channel number '527'. The main display area is divided into sections. A list of show titles is shown, including 'Sneak Previews', 'So I Married an Axe Murderer', and 'Soapdish'. Below these, there are sections for 'Saturday' and 'Sundays' with corresponding times and channels (HBO). A 'Soccer: Pro Semifinal' and 'A Soldier's Story' are also listed. At the bottom, there is a detailed description of the selected episode, 'Soapdish', mentioning the cast and plot. Numbered callouts 1 through 6 point to specific elements: 1 points to the 'Record' button, 2 points to the 'Hide' button, 3 points to the 'Program Guide' button, 4 points to the 'Sneak Previews' section, 5 points to the 'Saturday' section, and 6 points to the episode description at the bottom.

ProgramViews

What you can do from ProgramViews:

- Quickly find out what Movies and Sports are on TV. ProgramViews provides a complete seven day list of movies and sports programming complete with show descriptions.
- Tune directly from the grid to a show that is currently on. Simply select a show and press the TV button on the VideoGuide remote. VideoGuide changes the channel of your TV and the show is on instantly!
- Set shows to record. Select a show and press the LEFT ACTION button. (See page 20 for more on recording.)

Movies & Sports Views:

ProgramViews offers two show categories from which to choose: "Movies" and "Sports." Both formats list seven days of programs in chronological order, one day at a time.

The day and date appears across the top of the grid and the program listings follow in a column with show times, stations, and titles displayed. Move the JOYSTICK up and down to select a program title and display its description. To move to another day of listings, move the JOYSTICK left or right. Just as in ProgramGuide, press the TV button to tune directly to a selected movie or sports program and begin watching or press the LEFT ACTION button to record.

Entering ProgramViews:

From the VideoGuide Menu, move the VideoGuide remote's JOY-STICK up or down to select the ProgramViews service tile. Then, move the JOY-STICK left or right to select "Movies" or "Sports." Press the GUIDE button and the selected ProgramViews format will appear.

Movie Tile Colors: (colors may vary from TV to TV)

| | |
|-------------|---|
| Dark Green: | Adventure, Fantasy, Horror, Mystery, Science Fiction, Suspense, Western |
| Brown: | Biography, Documentary, Adult, Musical, Opera, Other |
| Green: | Children |
| Purple: | Drama, Romance |
| Blue: | Comedy, Satire |

Sports Tile Colors:

| | |
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| Purple: | All Sports Programming |
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ProgramViews – Movies View:

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The screenshot shows a television screen displaying the 'ProgramViews' menu. At the top, there's a header bar with 'ProgramViews' and 'Record' buttons, and a digital clock showing '5:35'. Below this, a list of movies is shown for 'Thursday, July 18, 2002'. The movies listed are: 'Freaky Friday' (8:35 PM, Disney), 'State Fair' (9:00 PM, AMC), 'Casey's Shadow' (9:35 PM, HBO), 'Too Late Blues' (10:00 PM, AMC), 'Man With the Gun' (10:00 PM, HBO), 'Scandalist' (11:35 PM, HBO), and 'Winchester 73' (12:00 AM, AMC). Below the movie list is an 'Information Box' containing details about the selected movie, 'Winchester 73', including its director, cast, and a brief synopsis.

1. Movies are listed chronologically in one-day columns. The time, channel, and title are displayed. When a movie title is selected you may tune directly to the show by pressing the TV button or record it by pressing the LEFT ACTION button.
2. Move the JOYSTICK up or down to select a movie title. Move the JOYSTICK right or left to display movies for other days of the week.
3. Press the LEFT ACTION button to Record a selected movie. (See page 20 for more details on recording).
4. Select a specific movie title and press the TV button on the Video Guide remote to Tune directly to the selected show.
5. The Information Box contains information about the selected show.

Sports View

The Sports View of ProgramViews functions in the same way as the Movies View. It lists sports events and sports related programs.

NewsGuide

What you can do with NewsGuide:

- Keep pace with breaking news. NewsGuide brings you complete and current news fresh off the wire including:

- regional,
- national, and
- international coverage

NewsGuide covers general interest news, business and financial news, sports, arts and entertainment, weather forecasts, and more.

No more waiting for the evening news or tomorrow's newspaper.

- Check the weather when you want to. NewsGuide provides a complete multi-day local forecast. The weather icon gives you a quick look at today's forecast. The traveler's forecast lets you know if it will rain or shine across the country.
- Follow the Markets. The Dow Jones Industrial Average information box is updated several times a day. Additional in-depth business and financial news is reported daily.

Entering NewsGuide:

From the VideoGuide Menu, move the VideoGuide remote's JOY-STICK up or down to select the NewsGuide service tile. Then press the GUIDE button and NewsGuide will appear.

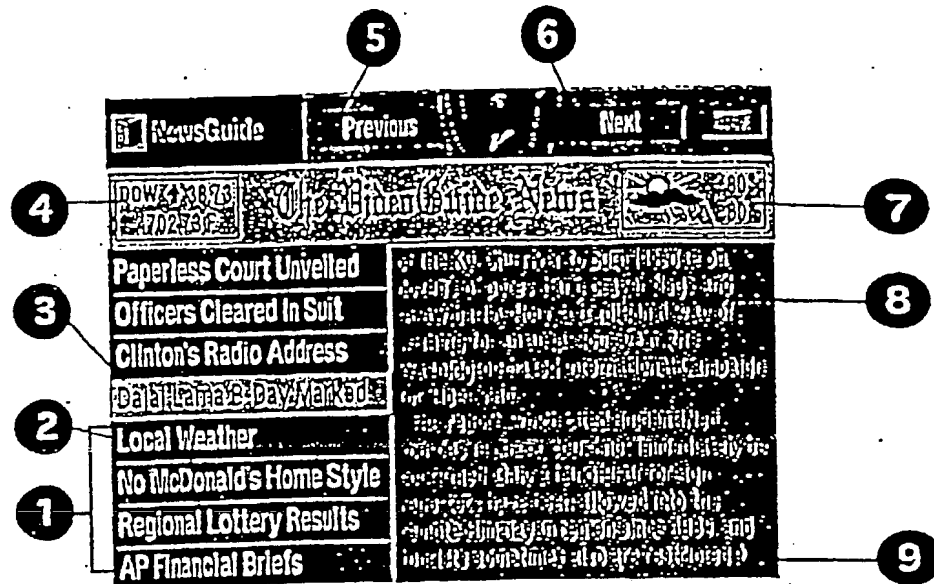
News Headline Tile Colors: (colors may vary from TV to TV)

| | |
|-------------|------------------------------|
| Dark Green: | National |
| Brown: | Regional |
| Green: | Business/Financial |
| Purple: | Sports, Arts & Entertainment |
| Blue: | International |

NewsGuide

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- 1 Headlines are listed in the left column. Select a headline and the story fills the right hand side of the screen.
- 2 View complete local weather for today and the days ahead.
- 3 Move the JOYSTICK up or down to select a headline. Move the JOYSTICK right or left (or press the ACTION buttons) to page through stories.
- 4 The current Dow Jones Industrial Average is updated throughout the day.
- 5 Press the LEFT ACTION button to return to a Previous page.
- 6 Press the RIGHT ACTION button to go to the Next page. In a story,
- 7 The weather icon displays the local forecast at a glance.
- 8 The right hand of the screen contains the story copy.
- 9 An arrow indicates the story continues on the next page.

SportsGuide

What you can do with SportsGuide:

- Always know the score.

SportsGuide tracks all the major professional and college games giving you instant access to *continuously updated* game scores. You can check what's going on throughout the league in seconds. No waiting for the evening news or for scores to slowly scroll by. Check the scores you want to when you want to.

- Get pre-, post-, and in-game summaries.

SportsGuide provides in-depth summaries of all major sporting events. Pre-game summaries give you insight into the coming event with details such as probable pitchers and current streaks. Post-game summaries provide game highlights recreating the action. In-game summaries provide detail to bring the score alive such as recent highlights and game time remaining.

- Check the league standings.

Standings for the major sports are provided.

- Find out which games are televised – watch them or record them.

When a game is on TV, the game tile is marked with a TV icon. Simply select a televised game by moving the JOYSTICK up or down, left or right. Then press the TV button to tune directly to the game, or press the LEFT ACTION button to record the game – just as you would from ProgramGuide. (See page 20 for more on recording.)

Game Tile Colors: (colors may vary from TV to TV)

| | |
|-------------|------------------------|
| Dark Green: | Game completed |
| Green: | Game in progress |
| Purple: | Scheduled to be played |
| Blue: | League standings |












Entering SportsGuide:

From the VideoGuide Menu, move the VideoGuide remote's JOYSTICK up or down to select SportsGuide service tile. Press the GUIDE button and SportsGuide will appear.

TIP:

You may enter SportsGuide on any sport you wish. Simply select the SportsGuide service tile from the VideoGuide Menu. Then use the LEFT and RIGHT ACTION buttons to select the PREVIOUS or NEXT sport. The selected sport appears in the service tile. Press the GUIDE button to enter at the top of the chosen sport's game tiles.

SportsGuide

| | | | | | | | |
|---|-----------|--------|------------|---|---------|-------------|---------|
| SportsGuide | | Record | | Next | | 6:52 | |
|  | Red Sox | E-5½ | 8:05 PM |  | Yankees | E-5½ | 8:35 PM |
|  | Twins | (11) | |  | Rangers | (10) | |
|  | Expos | 0200 | 3 9 1 F/10 |  | Astros | 200 000 000 | 2 4 1 F |
|  | Cardinals | 0001 | 4 10 0 |  | Rockies | 000 200 20- | 4 6 1 |
|  National League Standings | | | | | | | |
|  \$4,455,393 Wimbledon Tennis Championships (Women) Thursday's semi-finals - Complete | | | | | | | |
|  NASCAR Slick 50 300 Preview | | | | | | | |
| Screen Update: | | | | | | | |
| Atlanta | | 30 | 2 | 300 | | 4 | |
| Philadelphia | | 30 | 2 | 300 | | 4 | |
| Montreal | | 32 | 3 | 300 | | 7 (2) | |

- Game tiles are listed in 2 columns. Select a game tile and the related game summary fills the information box at the bottom of the screen.
- Move the JOYSTICK up or down, left or right to select a game tile.
- Press the LEFT ACTION button to record a televised game OR to return to the previous "page" of a game summary. (Note: Recording is only enabled when you are on the first page of a televised game's summary.)
- Press the RIGHT ACTION button to go to the Next "page" in a game summary.
- A TV icon indicates the game is scheduled to be televised. Select a televised game and press the TV button to tune directly to the game or press the LEFT ACTION button to Record it.
- The information box contains a game summary or other information. Here, the league standings are displayed.
- An arrow indicates the summary continues on the next "page."

Recording with VideoGuide

VideoGuide allows you to record a show "Once" or "Regularly."

Once: means record the show the selected time only.

Regularly: means record the show each and every time the show is on the selected channel at the selected time. For example, regularly may mean five times a week for a daily talk show, once a week for a weekly sitcom, or once a weekend for a Sunday morning news program. VideoGuide knows when the shows are on.

How to Record a show "Once."

1. Select a program you wish to record by highlighting its tile in any ProgramGuide or ProgramViews format or by highlighting a televised game tile in SportsGuide.
2. Press the LEFT ACTION button. That's it – you've set the show to record one time. (You will see the tile turn red indicating the show is set to record. The Information Box will turn green "confirming" the selected recording.)

How to Record shows "Regularly."

1. First select a show to record Once as outlined above.
2. While on the show's tile (now turned red) press the LEFT ACTION button (note that it is now labeled "Record List" in the banner). This will take you to the Record List.
3. In the Record List, select the show you wish to record Regularly by moving the JOYSTICK up or down. Once on the desired show, move the JOYSTICK to the right to change the frequency to "Regularly." The show is now set to record Regularly. (Moving the JOYSTICK back to the left will return the show recording frequency to "Once.")
4. To leave the Record List, press the LEFT ACTION button (labeled "Done") to return to the service from which the recording selection was made. Or, press the GUIDE button to go to the VideoGuide Menu.

Note

VideoGuide uses its own clock to start and stop recordings, so even if your VCR clock is blinking 12:00, VideoGuide will record correctly.

Important!

Your VCR must be turned OFF to record a show.

VideoGuide will automatically turn on your VCR when necessary.

TIP

VideoGuide records "scheduled" time slots. When recording a show that might run over its usual time slot (such as a game that may run into overtime) set the following show to record as well.

Recording a show in progress

To record a show in progress, simply select the show tile and press the LEFT ACTION button. The recording will begin immediately.

Recording with VideoGuide

| 1 | 2 | 3 |
|-------------------------|--|--------------|
| Program Guide | Record | Next Day |
| 7:00 PM | 7:00 PM | 7:00 PM |
| ABC World News | Inside Edition | Chronicle |
| NBC Nightly News | Wheel of Fortune | Jeopardy! |
| Wonder Years | Roseanne | Simpsons |
| Beverly Hills, 90210 | Cheers | Real Stories |
| Fresh Prince of Bel-Air | Star Trek: The Next Generation | |
| Soapdish | Eagle Scout | |
| Teddy Bears | Little Nemo: Adventures in Slumberland | |

- 1 Select a show to record by highlighting it in Program Guide, Program Views, or Sports Guide.
- 2 Press the LEFT ACTION button to record "Once." Press the LEFT ACTION button again to go to the Record List to cancel or record "Regularly."
- 3 The Information Box turns green to confirm recording selection.

| 2 | 3 |
|---|-----------|
| Record List | Done |
| 7:00 PM | 7:00 PM |
| Simpsons | Once |
| Friends | Regularly |
| Law & Order | Once |
| All My Children | Regularly |
| Star Trek: Voyager | Once |
| Soapdish | Once |
| The amount of space needed for next 24 hours: 200 | |

- 1 Select a show and move the JOYSTICK to the left or right to select the desired recording frequency, "Once" or "Regularly."
- 2 Press the LEFT ACTION button (labeled "Done") or press the GUIDE button to exit the Record List.
- 3 Press the RIGHT ACTION button to Remove a show from the Record List. This will cancel the recording or stop a recording in progress.

TIP:

Cancelling a Recording:

Go to the Record List, select the show you wish to cancel and press the RIGHT ACTION button (labeled "Remove" in the banner). Removing a show cancels it from being recorded. This also stops recording in progress.

Entering the Record List:

Press the LEFT ACTION button from the title of a show already selected to record (the title will be red). Or select the Record List title from the VideoGuide Menu and press the GUIDE button.

TIP:

The Record List indicates how much tape you need for the next 24 hours.

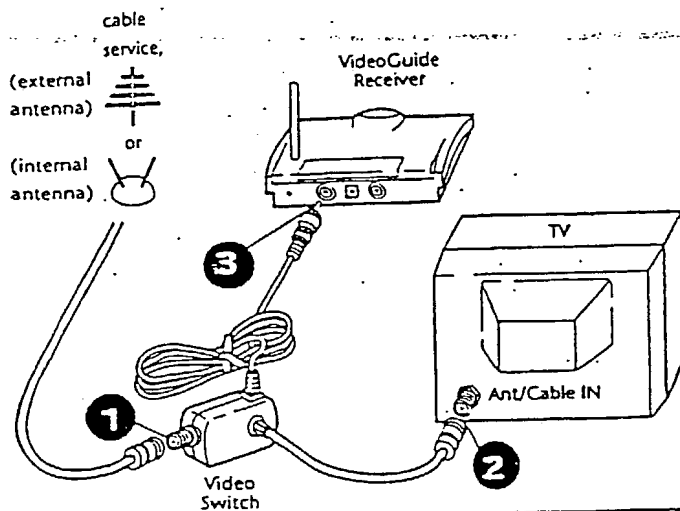
Setup Configurations (from Setup Sheet step 3)

These configurations follow from step 3 of the Setup Sheet. Please refer to the Setup Sheet for complete information on how to set up your VideoGuide. The equipment configurations below are examples of those most commonly used.

Use configuration A or B if you *do not use* a cable box because you use an antenna OR you receive cable TV service without a cable box. Use configuration C or D if you *do use* a cable box.

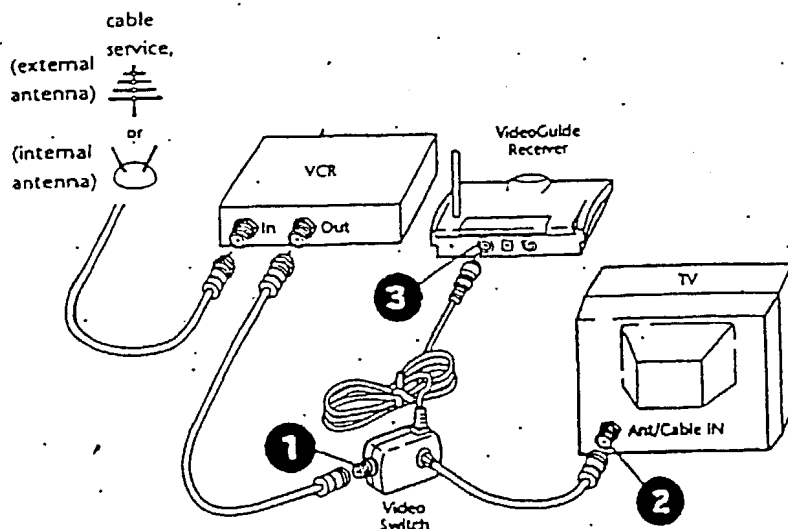
If you do not use a cable box and you have...

A ...only a TV



- 1 Unplug the cable that is currently plugged into the antenna/cable input of your TV and plug it into the input on the video switch.
- 2 Plug the SHORT video switch cord into the antenna/cable input of your TV.
- 3 Plug the LONG video switch cord into the VideoGuide receiver.

B ...a TV & VCR



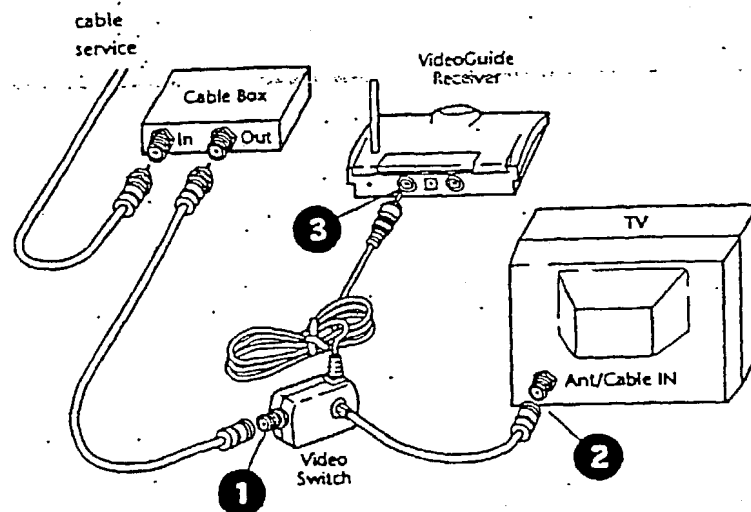
- 1 Unplug the cable that is currently plugged into the antenna/cable input of your TV and plug it into the input on the video switch.
 - 2 Plug the SHORT video switch cord into the antenna/cable input of your TV.
 - 3 Plug the LONG video switch cord into the VideoGuide receiver.
- VideoGuide should now be connected "between" your VCR and TV.

p 3)

Setup Configurations (from Setup Sheet step 3)

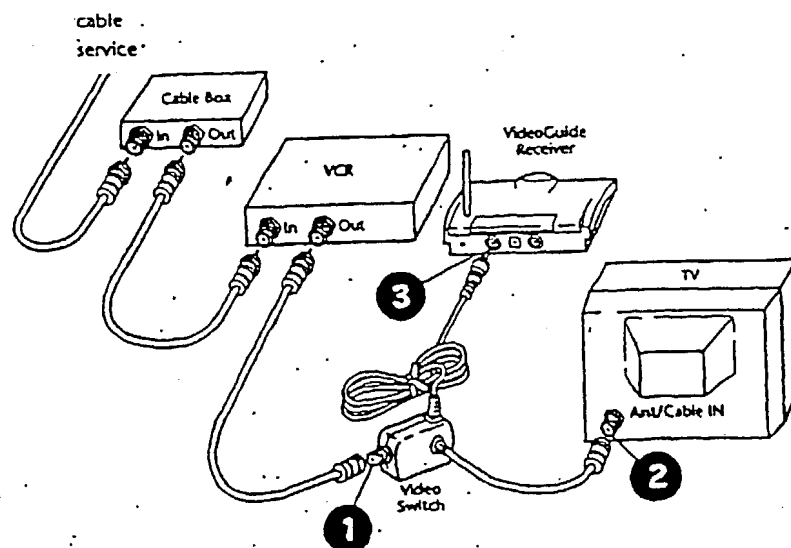
If you use a cable box and you have...

C ...only a TV



- 1 Unplug the cable that is currently plugged into the antenna/cable input of your TV and plug it into the input on the video switch.
- 2 Plug the SHORT video switch cord into the antenna/cable input of your TV.
- 3 Plug the LONG video switch cord into the VideoGuide receiver.

D ...a TV & VCR



- 1 Unplug the cable that is currently plugged into the antenna/cable input of your TV and plug it into the input on the video switch.
- 2 Plug the SHORT video switch cord into the antenna/cable input of your TV.
- 3 Plug the LONG video switch cord into the VideoGuide receiver. VideoGuide should now be connected "between" your VCR and TV.

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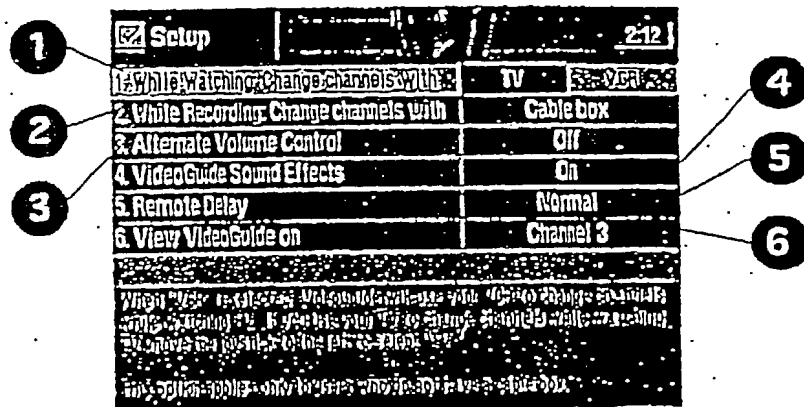
Guide should
be connected
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TV.

Setup Options – special settings

The Setup "Options" Screen

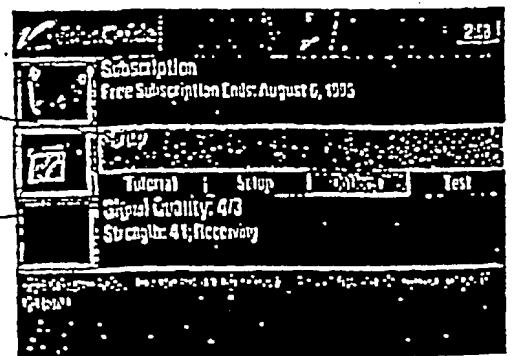
VideoGuide provides the setup "Options" screen to allow setup adjustments for people with less common equipment configurations. The setup "Options" screen also allows you to modify some VideoGuide functions. From the "Options" screen you may:

1. Choose to control channel changing while you watch TV using your VCR or TV.
2. Choose to control channel changing when you record using your VCR or cable box.
3. Choose an alternate piece of equipment from which to control the volume (for example, through your remote controlled stereo). Once you select "On," another setup screen appears requesting information about the equipment's remote.
4. Choose to turn the VideoGuide sound effects on or off.
5. Modify the remote control delay time. This adjustment is used if you find VideoGuide "drops" part of a channel number when you select a show from ProgramGuide or ProgramViews. For example, if you select a show that is on channel 12 and VideoGuide changes your TV to channel "1" or "2" select the "Slow" Remote Delay setting. Otherwise leave it on "Normal."
6. Choose on which channel you would like VideoGuide to be displayed, channel 3 or 4. (Use channel 4 if you have a strong broadcast channel 3 in your area.)



How to enter the "Options" setup screen:

1. Move the JOYSTICK up or down to select the Setup tile in the VideoGuide Menu.
2. Move the JOYSTICK right or left to select the small "Options" tile.
3. Press the GUIDE button on the VideoGuide remote.
4. You are now on the setup "Options" screen. Change the settings you wish. When done, press the GUIDE button to return to the VideoGuide Menu.



Troubleshooting

Need Help?

While we have attempted to make setup and use of VideoGuide as easy as possible, you may find that you have a question or a problem. Following are lists of "Important Reminders" and "Quick Answers." If you cannot find the answer to your question in this manual or on the separate Setup Sheet, call VideoGuide Customer Service and we will be glad to assist you.

Before you call Customer Service... 1-800-VGUIDE1 (1-800-848-4331)

1. Please be near your TV.
2. If your VideoGuide is set up, have your 10 digit serial number available. (Your serial number is displayed on the Subscription screen. To get there, select the "Subscription" tile in the VideoGuide Menu and press the GUIDE button.)
3. Please write down what you were doing when the problem occurred, listing the steps you followed prior to the problem occurring.

Troubleshooting – Important Reminders

1. Wait overnight after setting up VideoGuide for information to completely fill the services.
2. **A** Anytime you change your ZIP Code, cable service, cable box, or cable remote settings, the TV listing information in ProgramGuide and ProgramViews is discarded. You must wait overnight for new information.
3. Do not plug the VideoGuide receiver into an outlet that is controlled by a light switch. Also, do not plug it into the back of your cable box.
4. Always connect the SHORTER Video Switch cord to your TV antenna input. VideoGuide will not work properly if this cord is connected to your VCR or cable box.
5. If you have a cable box, always leave it on.
6. Leave your VCR off to record a show. (If you use your VCR to change channels while watching TV, make sure you turn off your VCR by pressing the "TV" button on the VideoGuide remote.)
7. Always have fresh batteries in your VideoGuide receiver so that your information is saved in the event of a household power failure. Replace them at least once a year or when you see the "flashing battery" in the VideoGuide clock.
8. Always have fresh batteries in your VideoGuide remote. Replace them every six months or whenever you find you need to hold your remote closer to the VideoGuide receiver to properly control it.
9. Make sure your ZIP Code is set correctly. If you have the wrong ZIP Code, you will get incorrect or missing channels and information in ProgramGuide. See Changing Setup Settings on page 24.
10. Changing numbers in the VideoGuide Menu's Signal tile is normal. They change when VideoGuide receives information.

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Troubleshooting – Quick Answers

1. When a button on the VideoGuide remote is pressed, nothing happens.

Makes sure the green "power on" indicator light on the back of the VideoGuide receiver is on. Make sure VideoGuide is not plugged into an outlet controlled by a light switch. Ensure the remote has fresh batteries that are inserted correctly (see the Setup Sheet, step 2). Ensure nothing is blocking the path from the remote to the VideoGuide receiver. Make sure your TV is on channel 3 (or channel 4, if your TV is always on channel 4). Check all connections making sure VideoGuide's video switch is plugged directly into your TV antenna input, see pages 22-23.

2. Program Guide is missing information on channels.

VideoGuide transmits TV listing information overnight. Have you waited overnight since setting up or your initial information fill? If you set up late in the evening, you may need to wait a second night. Did you change your ZIP code, cable box, cable service, or cable remote setup settings? Any of these changes discard your TV listing information. Wait overnight. VideoGuide uses your ZIP Code to provide the correct channel information. Ensure the correct ZIP Code is set. If not, see Changing Setup Settings on page 24. If your ZIP Code is correct, or you have partial data in your service screens, or the VideoGuide Menu's Signal fills displays "Searching for the VideoGuide signal" after waiting overnight, move your VideoGuide receiver 6 inches to the right or left while observing the signal fill found in the Menu. If the second Signal Quality digit (7/9) increases after 5 minutes, wait overnight. If still missing information or channels after waiting overnight, call Customer Service (1-800-848-4331).

3. After installing VideoGuide, your TV channels are snowy.

Press the TV button on the VideoGuide remote. Press the TV/VCR button on your VCR remote. Make sure VideoGuide is connected to your TV and all cables are securely connected as pictured on pages 22-23 and on the Setup Sheet.

4. When selecting a show from Program Guide and pressing the TV button, VideoGuide does not change your TV's channels.

Make sure your VideoGuide receiver is properly placed on your TV, overhanging the edge (see Setup Sheet). Ensure the infrared extender is properly connected and emitters aligned on your VCR (and cable box) sensor(s) (see Setup Sheet steps 4-6). Did you indicate you have a TV, VCR, or cable remote while going through the setup screens? If you don't have at least one remote-controlled piece of equipment, VideoGuide will not be able to change channels. If you recently bought a new TV, VCR, or cable box, see Changing Setup Settings on page 24. Remove anything blocking the path between your VideoGuide receiver and your TV. VideoGuide sends signals to your TV to change channels just as a remote control does.

5. After selecting a show from Program Guide and pressing the TV button, VideoGuide changes your TV to the wrong channel.

Does VideoGuide dial only one of the digits of the channel number? If so, see Setup Options #5 on page 25. VideoGuide uses your ZIP Code to provide the correct channel information. Ensure the correct ZIP Code is set. If not, see Changing Setup Settings on page 24. If your ZIP Code is correct, call Customer Service (1-800-848-4331).

6. VideoGuide no longer controls your TV, VCR, or cable box correctly.

Did you recently have a household power outage? Does the VideoGuide clock show a binary (on/off) flashing? If yes to both, VideoGuide may have lost some of your setup data. Place fresh batteries in your VideoGuide receiver and re-enter the remote setup information for the equipment no longer controlled, see Changing Setup Settings on page 24. Has your cable company recently changed the channel sequence? If so, please call us at 1-800-848-4331. If you recently bought a new TV, VCR, or cable box, see Changing Setup Settings on page 24. (Also, review #2 above.)

7. A show selected to record did not record.

Your VCR must be left OFF for VideoGuide to record. Ensure you have a tape in your VCR before recording. Ensure the infrared extender is properly connected and emitters placed on your VCR (and cable box) sensor(s), see Setup Sheet steps 4-6. You must have a remote-controlled VCR and have set it up, see Changing Setup Settings, page 24. If you have bought a new VCR you must change the setup settings, see page 24. See Important Reminder #6, page 26.

Subscribing to VideoGuide

Your VideoGuide comes with a free 30 day subscription to all services. Simply set up your VideoGuide, wait overnight to receive a complete set of information and begin enjoying all the VideoGuide services: ProgramGuide, ProgramViews, NewsGuide, SportsGuide, and One-touch VCR recording.

To ensure uninterrupted service, please subscribe before your free 30 day subscription expires. Regardless of when you subscribe, you will still get the first 30 days free.

Subscribing to VideoGuide is easy:

Step 1 Decide which services you want:

- a. Basic: Basic service includes the TV program listing services (ProgramGuide and ProgramViews) and One-touch VCR recording.
- b. Basic *and* NewsGuide
- c. Basic *and* SportsGuide
- d. Basic, NewsGuide *and* SportsGuide

Step 2 Have your serial number available.

Your serial number is displayed in several places. It is always displayed in the Subscription screen. To access the Subscription screen, enter VideoGuide. From the VideoGuide Menu select the Subscription tile and press the GUIDE button. Your serial number is displayed in the middle of the Subscription screen.

Step 3 Subscribe:

Call us at 1-800-VGUIDE1 (1-800-848-4331) for complete details on discount subscription options

OR

Send In the Subscription Order form that came with your VideoGuide.

To Subscribe
Call

1-800-VGUIDE1

(1-800-848-4331)

Please have your
serial number
available
(see Step 2 at left)